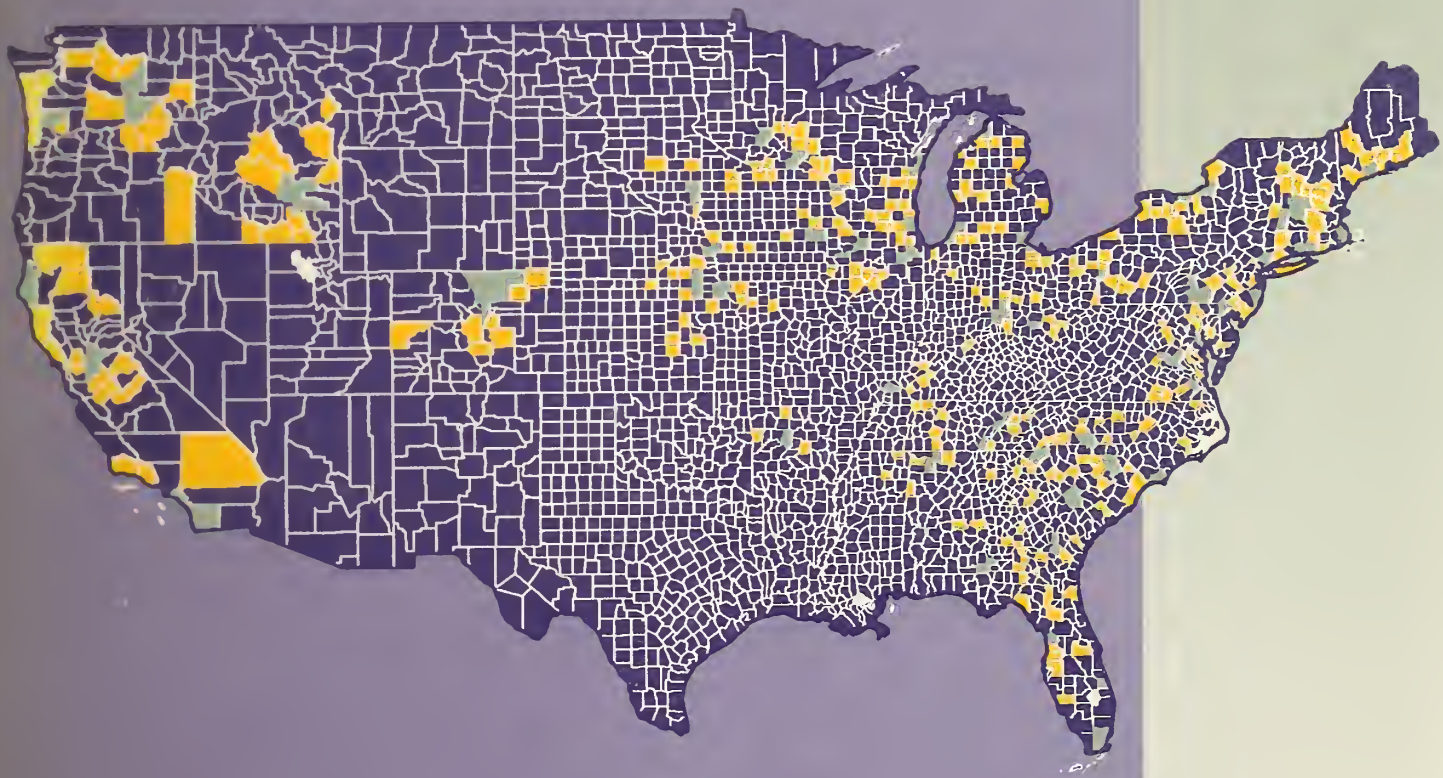
Cancer in Populations Living Near Nuclear Facilities



Vol 2. Individual Facilities: Cancer before and after start-up

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CANCER IN POPULATIONS LIVING NEAR NUCLEAR FACILITIES

VOLUME 2 - INDIVIDUAL FACILITIES: CANCER BEFORE AND AFTER START-UP

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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE
NATIONAL INSTITUTES OF HEALTH

July, 1990

NIH Publication No. 90-874

RC
276
C2156
1990
v. 2

For sale by the Superintendent of Documents, U.S. Government Printing Office
Washington, DC 20402

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Table 1

Age at death: under 10 — All facilities combined

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	2020	1.07	4251	0.99	1390	1.01	2572	0.97
ALL CANCER, EXCL LEUK	1969	0.99	4623	1.03	1717	1.03	3243	1.02
HODGKIN'S DISEASE	42	1.33	69	0.95	13	0.75	26	0.78
OTHER LYMPHOMA	266	0.99	584	0.96	217	1.13	397	1.08
MULTIPLE MYELOMA	1	1.15	3	1.54	4	4.35	2	1.16
DIGESTIVE ORGANS	97	0.95	240	1.03	95	1.11	160	0.98
STOMACH	3	0.65	10	0.95	5	1.91	4	0.81
COLON & RECTUM	15	1.31	26	1.00	16	2.08	18	1.24
LIVER (PRIMARY)	59	0.99	141	1.04	57	0.96	113	1.00
TRACHEA, BRONCHUS, LUNG	13	0.79	44	1.17	26	1.58	19	0.61
BREAST (FEMALE)	2	0.76	14	2.34	5	1.57	4	0.66
THYROID	2	1.04	5	1.11	0	0.00	2	1.21
BONES & JOINTS	74	1.03	173	1.06	46	0.82	111	1.02
BLADDER	13	1.14	27	1.03	9	1.33	13	1.01
BRAIN & OTHER C.N.S.	808	1.02	1853	1.03	625	1.01	1208	1.01
BENIGN & UNSPEC NEOPLASMS	47	1.28	80	0.97	104	0.91	192	0.91

Table 1

Age at death: under 10 — All facilities combined

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.08**	1.03	0.93	0.95
ALL CANCER, EXCL LEUK	0.94*	0.99	1.05	0.96
HODGKIN'S DISEASE	1.41	0.90	0.94	0.99
OTHER LYMPHOMA	0.94	1.00	0.93	0.94
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.94	1.03	1.25	0.91
STOMACH	-	-	-	-
COLON & RECTUM	1.70	1.52	-	1.60
LIVER (PRIMARY)	0.91	0.92	0.98	0.88
TRACHEA, BRONCHUS, LUNG	0.68	2.24**	1.72	0.40**
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.04	0.78	0.95	0.96
BLADDER	1.20	-	-	-
BRAIN & OTHER C.N.S.	0.97	0.99	0.99	0.95
BENIGN & UNSPEC NEOPLASMS	1.39	1.02	0.75	0.92

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1

Age at death: 10 to 19 — All facilities combined

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	923	1.01	2035	0.98	996	0.95	2063	1.02
ALL CANCER, EXCL LEUK	1684	0.96	3840	0.97	1963	1.01	3671	0.98
HODGKIN'S DISEASE	170	0.94	393	0.97	115	0.74	336	1.12
OTHER LYMPHOMA	263	1.03	545	0.94	286	1.02	547	1.01
MULTIPLE MYELOMA	1	0.90	0	0.00	3	2.21	5	1.90
DIGESTIVE ORGANS	77	0.88	210	1.07	105	1.12	150	0.85
STOMACH	1	0.16	7	0.48	9	1.68	6	0.59
COLON & RECTUM	27	0.79	82	1.08	32	1.00	47	0.78
LIVER (PRIMARY)	29	1.02	75	1.17	45	1.18	64	0.88
TRACHEA, BRONCHUS, LUNG	16	0.79	40	0.87	22	1.15	41	1.11
BREAST (FEMALE)	1	0.27	7	0.81	5	1.31	4	0.54
THYROID	2	0.42	12	1.11	3	0.73	9	1.13
BONES & JOINTS	294	0.90	726	0.99	362	1.02	640	0.94
BLADDER	0	0.00	5	1.38	0	0.00	1	0.36
BRAIN & OTHER C.N.S.	429	0.99	917	0.93	511	1.05	919	0.97
BENIGN & UNSPEC NEOPLASMS	36	1.19	67	0.96	75	0.87	167	1.04

Table 1

Age at death: 10 to 19 — All facilities combined

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.02	0.94	0.92	1.05
ALL CANCER, EXCL LEUK	0.98	1.03	1.03	0.97
HODGKIN'S DISEASE	1.01	0.69**	0.83	1.07
OTHER LYMPHOMA	1.11	0.99	0.94	0.97
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.84	1.30*	1.38	0.77*
STOMACH	-	-	-	-
COLON & RECTUM	0.70	1.37	1.31	0.61*
LIVER (PRIMARY)	0.91	1.39	1.30	0.82
TRACHEA, BRONCHUS, LUNG	0.89	1.05	1.54	1.30
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.91	1.11	1.03	0.95
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.01	1.05	1.06	1.00
BENIGN & UNSPEC NEOPLASMS	1.30	0.82	0.70	1.12

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1

Age at death: 20 to 39 — All facilities combined

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1391	0.98	2939	0.93	1834	1.01	3395	1.02
ALL CANCER, EXCL LEUK	12301	0.97	27881	0.99	14346	0.99	26853	1.01
HODGKIN'S DISEASE	1151	1.02	2625	1.05	1121	1.03	2230	1.11
OTHER LYMPHOMA	682	0.97	1556	1.00	974	1.06	1735	1.02
MULTIPLE MYELOMA	60	1.08	135	1.10	71	1.12	126	1.09
DIGESTIVE ORGANS	2004	0.93	4920	1.02	2076	0.94	3926	0.98
STOMACH	373	0.83	1012	1.01	345	0.88	626	0.87
COLON & RECTUM	997	0.95	2411	1.03	982	0.93	1979	1.02
LIVER (PRIMARY)	226	1.02	482	0.99	262	1.12	424	1.01
TRACHEA, BRONCHUS, LUNG	897	0.93	2110	0.99	1293	0.99	2373	0.99
BREAST (FEMALE)	1714	0.98	3941	1.01	2155	1.01	4058	1.02
THYROID	40	0.96	93	1.00	44	1.10	84	1.14
BONES & JOINTS	251	1.07	503	0.97	332	1.15	510	0.97
BLADDER	63	1.15	117	0.96	52	1.06	106	1.17
BRAIN & OTHER C.N.S.	1051	0.96	2295	0.93	1317	0.98	2452	0.99
BENIGN & UNSPEC NEOPLASMS	64	0.87	170	1.05	231	0.92	429	0.97

Table 1

Age at death: 20 to 39 — All facilities combined

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.05	1.01	1.05	1.10**
ALL CANCER, EXCL LEUK	1.01	1.00	1.02	1.01
HODGKIN'S DISEASE	1.03	0.99	1.01	1.01
OTHER LYMPHOMA	1.00	1.07	1.05	0.97
MULTIPLE MYELOMA	0.98	1.16	0.98	1.05
DIGESTIVE ORGANS	0.95	0.98	1.00	0.94*
STOMACH	0.84**	0.96	1.10	0.87*
COLON & RECTUM	0.98	0.94	0.96	0.95
LIVER (PRIMARY)	1.09	1.13	1.06	1.05
TRACHEA, BRONCHUS, LUNG	0.94	1.01	1.08	1.00
BREAST (FEMALE)	1.02	1.00	0.98	1.04
THYROID	0.95	1.00	1.22	1.16
BONES & JOINTS	1.16	1.27**	1.09	0.99
BLADDER	1.37	0.80	0.92	1.24
BRAIN & OTHER C.N.S.	1.00	1.01	0.98	1.03
BENIGN & UNSPEC NEOPLASMS	0.84	0.99	1.21	0.87

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1

Age at death: 40 to 59 — All facilities combined

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3162	0.98	7271	0.97	3792	1.00	7517	1.01
ALL CANCER, EXCL LEUK	91496	0.99	214260	1.00	120112	1.00	236862	1.00
HODGKIN'S DISEASE	1184	0.94	2979	1.02	1016	0.97	2205	1.06
OTHER LYMPHOMA	2899	1.05	6220	0.97	3773	1.02	7548	1.03
MULTIPLE MYELOMA	1021	1.00	2317	0.98	1459	1.00	2776	0.97
DIGESTIVE ORGANS	24499	0.98	58745	1.01	27512	1.00	55120	1.02
STOMACH	4489	0.92	11369	1.00	3843	0.93	8204	1.02
COLON & RECTUM	10849	1.02	25868	1.04	12379	1.03	24937	1.04
LIVER (PRIMARY)	2442	0.96	5917	1.00	1840	0.96	3447	0.92
TRACHEA, BRONCHUS, LUNG	17817	0.98	41177	0.98	32946	1.01	63239	0.98
BREAST (FEMALE)	12864	1.00	30135	1.01	17327	1.05	33717	1.03
THYROID	260	0.85	767	1.07	303	1.07	578	1.03
BONES & JOINTS	512	0.95	1241	0.99	398	0.92	805	0.95
BLADDER	1485	1.04	3545	1.07	1467	1.03	2991	1.06
BRAIN & OTHER C.N.S.	3404	1.01	7780	0.99	4142	0.97	8455	0.99
BENIGN & UNSPEC NEOPLASMS	259	1.01	724	1.20	764	0.94	1522	0.97

Table 1

Age at death: 40 to 59 — All facilities combined

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.01	1.00	1.02	1.03
ALL CANCER, EXCL LEUK	1.01	1.01	0.98***	0.99
HODGKIN'S DISEASE	0.97	0.97	1.06	1.06
OTHER LYMPHOMA	1.10***	1.00	0.95	1.04*
MULTIPLE MYELOMA	1.01	1.04	0.96	0.97
DIGESTIVE ORGANS	1.01	1.00	1.00	1.00
STOMACH	0.96*	0.94**	1.04	1.02
COLON & RECTUM	1.04***	1.02	0.98	1.00
LIVER (PRIMARY)	0.98	1.03	0.96	0.89***
TRACHEA, BRONCHUS, LUNG	1.00	1.01	0.96***	0.99
BREAST (FEMALE)	1.01	1.03**	1.00	1.01
THYROID	0.84*	1.08	1.13	0.91
BONES & JOINTS	1.00	0.98	1.03	0.97
BLADDER	0.98	0.98	1.00	0.98
BRAIN & OTHER C.N.S.	1.01	0.96*	0.95	1.01
BENIGN & UNSPEC NEOPLASMS	0.89	0.99	0.91	0.79***

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1

Age at death: 60 plus — All facilities combined

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8511	0.97	19475	0.96	13164	0.97	27027	1.01
ALL CANCER, EXCL LEUK	226750	0.98	545906	1.02	366155	1.03	727345	1.03
HODGKIN'S DISEASE	1294	0.92	3512	1.07	1413	0.98	2915	1.01
OTHER LYMPHOMA	5898	1.07	12341	0.97	10923	1.04	20836	1.00
MULTIPLE MYELOMA	2761	1.00	6350	1.00	5911	1.01	11725	1.03
DIGESTIVE ORGANS	87127	0.97	216422	1.03	118266	1.03	237648	1.05
STOMACH	18275	0.92	47868	1.03	16812	0.97	35806	1.04
COLON & RECTUM	40155	1.00	98425	1.05	59642	1.07	117639	1.06
LIVER (PRIMARY)	8446	0.93	21444	1.01	6845	0.98	13588	0.97
TRACHEA, BRONCHUS, LUNG	34903	0.99	80480	0.99	83459	1.03	162094	1.01
BREAST (FEMALE)	17262	0.99	40956	1.02	29239	1.07	57209	1.06
THYROID	902	0.96	2143	0.98	1127	1.04	2213	1.04
BONES & JOINTS	1218	0.95	3077	1.02	1079	0.97	2155	0.97
BLADDER	9023	1.06	21613	1.09	12224	1.07	24187	1.07
BRAIN & OTHER C.N.S.	2758	1.04	5793	0.94	6375	1.03	12517	1.02
BENIGN & UNSPEC NEOPLASMS	543	1.01	1265	1.00	2229	1.01	4647	1.10

Table 1

Age at death: 60 plus — All facilities combined

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	0.97**	0.99	1.04***
ALL CANCER, EXCL LEUK	0.99	1.01	1.02***	1.01
HODGKIN'S DISEASE	0.87***	0.96	1.15**	0.95
OTHER LYMPHOMA	1.09***	1.04**	0.97	1.03*
MULTIPLE MYELOMA	0.98	0.98	1.01	1.02
DIGESTIVE ORGANS	0.98***	1.01	1.04***	1.01
STOMACH	0.94***	0.97**	1.08***	1.03***
COLON & RECTUM	1.01	1.04***	1.03***	1.00
LIVER (PRIMARY)	0.95***	1.01	0.99	0.95***
TRACHEA, BRONCHUS, LUNG	1.00	1.01	0.99	1.01
BREAST (FEMALE)	1.01	1.03***	1.04***	1.03***
THYROID	1.00	1.02	1.04	1.02
BONES & JOINTS	0.99	1.03	1.02	0.96
BLADDER	1.01	1.02	0.98	0.98*
BRAIN & OTHER C.N.S.	1.06*	0.99	0.95	1.09***
BENIGN & UNSPEC NEOPLASMS	1.03	0.95*	1.01	1.05

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1

Age at death: all — All facilities combined

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	16007	0.99	35971	0.97	21176	0.98	42574	1.01
ALL CANCER, EXCL LEUK	334200	0.99	796510	1.01	504293	1.02	997974	1.02
HODGKIN'S DISEASE	3841	0.96	9578	1.04	3678	0.98	7712	1.06
OTHER LYMPHOMA	10008	1.05	21246	0.97	16173	1.04	31063	1.01
MULTIPLE MYELOMA	3844	1.00	8805	1.00	7448	1.01	14634	1.02
DIGESTIVE ORGANS	113804	0.97	280537	1.03	148054	1.02	297004	1.04
STOMACH	23141	0.92	60266	1.03	21014	0.96	44646	1.03
COLON & RECTUM	52043	1.00	126812	1.05	73051	1.06	144620	1.06
LIVER (PRIMARY)	11202	0.94	28059	1.01	9049	0.98	17636	0.96
TRACHEA, BRONCHUS, LUNG	53646	0.99	123851	0.99	117746	1.03	227766	1.00
BREAST (FEMALE)	31843	1.00	75053	1.02	48731	1.06	94992	1.05
THYROID	1206	0.93	3020	1.00	1477	1.05	2886	1.04
BONES & JOINTS	2349	0.96	5720	1.01	2217	0.99	4221	0.96
BLADDER	10584	1.06	25307	1.09	13752	1.07	27298	1.07
BRAIN & OTHER C.N.S.	8450	1.01	18638	0.97	12970	1.00	25551	1.00
BENIGN & UNSPEC NEOPLASMS	949	1.02	2306	1.05	3403	0.98	6957	1.05

Table 1

Age at death: all

All facilities combined

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.02	0.98*	0.99	1.04***
ALL CANCER, EXCL LEUK	1.00	1.01	1.01	1.01
HODGKIN'S DISEASE	0.96*	0.96	1.07*	1.01
OTHER LYMPHOMA	1.08***	1.03**	0.97*	1.03**
MULTIPLE MYELOMA	0.99	1.00	0.99	1.01
DIGESTIVE ORGANS	0.99	1.01	1.03***	1.01
STOMACH	0.95***	0.97***	1.07***	1.03***
COLON & RECTUM	1.02***	1.03***	1.02**	1.00
LIVER (PRIMARY)	0.96***	1.02	0.99	0.94***
TRACHEA, BRONCHUS, LUNG	0.99	1.01	0.98**	1.01
BREAST (FEMALE)	1.01	1.03***	1.02**	1.03***
THYROID	0.96	1.03	1.06	1.00
BONES & JOINTS	1.00	1.05	1.03	0.96
BLADDER	1.01	1.02	0.98	0.98*
BRAIN & OTHER C.N.S.	1.02	0.98	0.96*	1.04***
BENIGN & UNSPEC NEOPLASMS	0.99	0.96	0.97	0.97

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A

Age at death: under 10 Department of Energy facilities

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	39	1.18	48	0.84	601	1.01	1009	0.96
ALL CANCER, EXCL LEUK	37	1.06	56	0.93	660	0.99	1233	1.05
HODGKIN'S DISEASE	1	1.45	2	1.76	5	0.56	9	0.56
OTHER LYMPHOMA	6	1.25	7	0.85	112	1.33	204	1.37
MULTIPLE MYELOMA	0	0.00	0	0.00	1	2.99	1	1.72
DIGESTIVE ORGANS	2	0.98	3	0.88	27	0.79	60	0.99
STOMACH	1	7.36	0	0.00	1	0.75	2	0.84
COLON & RECTUM	0	0.00	1	2.21	6	1.71	5	0.81
LIVER (PRIMARY)	0	0.00	1	0.57	14	0.65	40	1.05
TRACHEA, BRONCHUS, LUNG	0	0.00	2	3.81	14	2.34	8	0.76
BREAST (FEMALE)	0	0.00	0	0.00	3	2.80	2	1.06
THYROID	0	0.00	0	0.00	0	0.00	1	1.11
BONES & JOINTS	1	0.76	1	0.45	13	0.56	43	1.04
BLADDER	0	0.00	1	2.38	6	1.81	7	1.19
BRAIN & OTHER C.N.S.	19	1.38	21	0.88	244	0.94	479	1.05
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	19	0.70	46	0.96

Table 1-A

Age at death: under 10 — Department of Energy facilities

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.45	1.06	0.90	1.06
ALL CANCER, EXCL LEUK	1.06	0.95	1.13	0.90
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	-	0.97	-	1.91
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	0.70	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	0.57	-	-
TRACHEA, BRONCHUS, LUNG	-	2.65*	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	0.55	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.34	0.90	0.69	0.90
BENIGN & UNSPEC NEOPLASMS	-	0.68	-	-

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-A

Age at death: 10 to 19 — Department of Energy facilities

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	11	0.84	27	1.18	336	0.97	575	0.92
ALL CANCER, EXCL LEUK	22	0.86	36	0.81	683	1.05	1193	1.02
HODGKIN'S DISEASE	3	1.09	4	0.84	37	0.62	114	1.06
OTHER LYMPHOMA	2	0.58	4	0.65	105	1.11	187	1.10
MULTIPLE MYELOMA	0	0.00	0	0.00	1	2.37	1	1.28
DIGESTIVE ORGANS	1	0.64	2	0.78	34	1.06	50	0.87
STOMACH	0	0.00	0	0.00	3	1.42	3	0.79
COLON & RECTUM	0	0.00	1	0.87	13	1.11	21	0.99
LIVER (PRIMARY)	0	0.00	1	1.52	11	0.92	11	0.52
TRACHEA, BRONCHUS, LUNG	1	2.48	0	0.00	7	1.01	15	1.20
BREAST (FEMALE)	0	0.00	0	0.00	2	1.46	3	1.21
THYROID	0	0.00	0	0.00	2	1.27	1	0.35
BONES & JOINTS	7	1.46	10	1.21	144	1.20	191	0.89
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	7	1.12	8	0.73	172	1.05	304	1.04
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	16	0.77	31	0.86

Table 1-A

Age at death: 10 to 19 — Department of Energy facilities

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.68	1.07	1.19	0.77
ALL CANCER, EXCL LEUK	1.07	1.04	1.22	1.24
HODGKIN'S DISEASE	-	0.56**	-	-
OTHER LYMPHOMA	-	1.01	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	1.30	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	1.35	-	-
LIVER (PRIMARY)	-	1.74	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	1.34**	1.08	0.59
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	1.04	-	1.73
BENIGN & UNSPEC NEOPLASMS	-	0.94	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A

Age at death: 20 to 39 Department of Energy facilities

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	14	0.58	40	1.03	543	0.97	1001	1.01
ALL CANCER, EXCL LEUK	236	1.06	385	1.09	4922	1.04	8376	1.01
HODGKIN'S DISEASE	19	1.00	47	1.52	389	1.00	724	1.05
OTHER LYMPHOMA	20	1.74	16	0.86	302	1.07	501	1.01
MULTIPLE MYELOMA	2	2.15	3	2.03	22	1.05	30	0.83
DIGESTIVE ORGANS	41	0.99	69	1.07	748	0.98	1304	0.98
STOMACH	8	0.84	10	0.69	118	0.79	215	0.83
COLON & RECTUM	27	1.32	38	1.19	361	0.98	707	1.10
LIVER (PRIMARY)	3	0.68	6	0.88	103	1.28	128	0.92
TRACHEA, BRONCHUS, LUNG	8	0.62	24	1.12	415	1.05	728	1.06
BREAST (FEMALE)	32	1.06	47	1.00	731	1.07	1086	0.92
THYROID	2	2.62	0	0.00	13	0.90	29	1.15
BONES & JOINTS	6	1.34	7	1.00	118	1.31	153	0.95
BLADDER	0	0.00	3	1.61	19	1.03	39	1.23
BRAIN & OTHER C.N.S.	15	0.81	28	0.93	459	1.08	796	1.07
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	40	0.72	95	0.98

Table 1-A

Age at death: 20 to 39 — Department of Energy facilities

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.54	0.97	1.73*	0.98
ALL CANCER, EXCL LEUK	0.95	1.03	1.02	0.93
HODGKIN'S DISEASE	0.61	0.94	1.07	0.63**
OTHER LYMPHOMA	1.83	1.05	0.47**	1.37
MULTIPLE MYELOMA	-	1.48	-	-
DIGESTIVE ORGANS	1.02	1.00	1.14	1.01
STOMACH	-	0.95	0.92	1.30
COLON & RECTUM	1.20	0.89	0.90	0.98
LIVER (PRIMARY)	-	1.37*	-	1.11
TRACHEA, BRONCHUS, LUNG	0.54	1.00	1.65	1.11
BREAST (FEMALE)	1.10	1.15**	1.21	0.88
THYROID	-	0.73	-	-
BONES & JOINTS	-	1.37*	-	0.81
BLADDER	-	0.73	-	-
BRAIN & OTHER C.N.S.	0.80	1.04	1.22	0.93
BENIGN & UNSPEC NEOPLASMS	-	0.73	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A

Age at death: 40 to 59 — Department of Energy facilities

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	63	1.13	71	0.80	1187	1.00	2186	1.03
ALL CANCER, EXCL LEUK	1621	1.07	2342	0.98	38594	1.06	64666	1.00
HODGKIN'S DISEASE	21	0.97	30	0.87	370	0.94	712	1.01
OTHER LYMPHOMA	50	1.23	73	1.10	1102	1.01	1992	1.02
MULTIPLE MYELOMA	19	1.29	19	0.80	485	1.12	777	1.02
DIGESTIVE ORGANS	477	1.02	740	1.03	9193	1.02	15556	0.97
STOMACH	81	0.72	158	0.95	1289	0.82	2610	0.94
COLON & RECTUM	218	1.13	342	1.14	4211	1.09	6612	0.96
LIVER (PRIMARY)	64	1.13	82	0.96	792	1.02	1360	0.99
TRACHEA, BRONCHUS, LUNG	209	0.94	349	0.94	10072	1.16	16308	1.06
BREAST (FEMALE)	242	1.19	296	0.93	5303	1.06	8620	0.97
THYROID	6	0.96	6	0.63	121	1.20	192	1.06
BONES & JOINTS	6	0.51	19	1.07	160	0.96	288	0.97
BLADDER	31	1.09	48	1.10	495	1.01	891	1.02
BRAIN & OTHER C.N.S.	53	1.00	75	0.87	1301	1.01	2366	1.02
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	176	0.95	295	0.92

Table 1-A

Age at death: 40 to 59 — Department of Energy facilities

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.39	0.97	0.91	1.23
ALL CANCER, EXCL LEUK	1.07	1.04***	1.03	1.03
HODGKIN'S DISEASE	1.05	0.91	0.98	1.12
OTHER LYMPHOMA	1.18	0.98	0.88	0.91
MULTIPLE MYELOMA	1.55	1.09	0.79	1.10
DIGESTIVE ORGANS	0.96	1.02	1.07	0.95
STOMACH	0.83	0.88***	1.21	1.00
COLON & RECTUM	0.95	1.09***	1.12	0.90
LIVER (PRIMARY)	1.06	1.02	0.87	1.00
TRACHEA, BRONCHUS, LUNG	0.93	1.08***	1.17*	1.17**
BREAST (FEMALE)	1.35***	1.07***	0.97	1.12
THYROID	-	1.11	1.19	1.75
BONES & JOINTS	0.48	0.96	1.56	0.77
BLADDER	0.86	0.97	0.91	0.90
BRAIN & OTHER C.N.S.	1.14	1.00	1.01	1.08
BENIGN & UNSPEC NEOPLASMS	-	1.03	-	-

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-A

Age at death: 60 plus — Department of Energy facilities

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	131	1.02	215	0.94	3410	1.00	6886	1.05
ALL CANCER, EXCL LEUK	3864	1.03	6172	0.95	96776	1.06	171840	0.99
HODGKIN'S DISEASE	20	0.84	52	1.27	385	0.87	849	1.00
OTHER LYMPHOMA	85	1.20	119	0.93	2487	1.02	4713	1.01
MULTIPLE MYELOMA	35	1.15	58	1.04	1431	1.06	2714	1.07
DIGESTIVE ORGANS	1613	0.99	2597	0.93	33051	1.03	59440	0.97
STOMACH	416	0.94	569	0.78	4796	0.81	10041	0.89
COLON & RECTUM	727	1.07	1199	1.02	16804	1.13	28083	0.99
LIVER (PRIMARY)	190	0.97	356	1.08	2709	1.06	4768	0.98
TRACHEA, BRONCHUS, LUNG	369	0.94	631	0.86	20265	1.14	34511	1.02
BREAST (FEMALE)	334	1.17	491	1.04	7761	1.10	12817	0.97
THYROID	20	1.17	31	1.07	335	1.05	631	1.05
BONES & JOINTS	26	0.95	44	0.97	370	0.99	715	0.99
BLADDER	151	1.04	256	1.01	3329	1.09	5857	0.99
BRAIN & OTHER C.N.S.	38	1.23	50	0.90	1409	1.04	2580	1.00
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	377	0.89	744	0.94

Table 1-A

Age at death: 60 plus — Department of Energy facilities

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.02	0.94**	0.95	1.16
ALL CANCER, EXCL LEUK	1.06**	1.04***	1.06**	1.04**
HODGKIN'S DISEASE	0.69	0.84**	1.09	0.82
OTHER LYMPHOMA	1.25	1.00	0.81	1.14
MULTIPLE MYELOMA	1.01	0.99	0.98	1.02
DIGESTIVE ORGANS	1.04	1.02**	1.10***	1.05*
STOMACH	1.22**	0.93***	0.98	1.00
COLON & RECTUM	1.02	1.08***	1.12**	1.04
LIVER (PRIMARY)	0.82*	1.04	0.94	0.82**
TRACHEA, BRONCHUS, LUNG	1.08	1.09***	1.19**	1.20***
BREAST (FEMALE)	1.11	1.08***	0.98	1.03
THYROID	1.08	0.97	0.74	1.06
BONES & JOINTS	0.99	0.99	1.24	0.99
BLADDER	1.04	1.06*	1.12	1.12
BRAIN & OTHER C.N.S.	1.28	1.01	0.74	0.92
BENIGN & UNSPEC NEOPLASMS	-	0.92	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A

Age at death: all

Department of Energy facilities

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	258	1.01	401	0.92	6077	1.00	11657	1.03
ALL CANCER, EXCL LEUK	5780	1.04	8991	0.96	141635	1.06	247308	0.99
HODGKIN'S DISEASE	64	0.94	135	1.20	1186	0.92	2408	1.02
OTHER LYMPHOMA	163	1.24	219	0.96	4108	1.03	7597	1.02
MULTIPLE MYELOMA	56	1.21	80	0.98	1940	1.07	3523	1.06
DIGESTIVE ORGANS	2134	0.99	3411	0.95	43053	1.03	76410	0.97
STOMACH	506	0.90	737	0.81	6207	0.82	12871	0.90
COLON & RECTUM	972	1.09	1581	1.05	21395	1.12	35428	0.98
LIVER (PRIMARY)	257	0.99	446	1.05	3629	1.06	6307	0.98
TRACHEA, BRONCHUS, LUNG	587	0.94	1006	0.89	30773	1.15	51570	1.03
BREAST (FEMALE)	608	1.17	834	0.99	13800	1.08	22528	0.97
THYROID	28	1.15	37	0.93	471	1.08	854	1.05
BONES & JOINTS	46	0.93	81	1.00	805	1.04	1390	0.97
BLADDER	182	1.04	308	1.03	3849	1.08	6794	0.99
BRAIN & OTHER C.N.S.	132	1.08	182	0.88	3585	1.03	6525	1.02
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	628	0.88	1211	0.94

Table 1-A

Age at death: all

Department of Energy facilities

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.07	0.96*	0.99	1.12
ALL CANCER, EXCL LEUK	1.06**	1.04***	1.05**	1.04**
HODGKIN'S DISEASE	0.76	0.88***	1.00	0.82
OTHER LYMPHOMA	1.27*	0.99	0.80*	1.11
MULTIPLE MYELOMA	1.13	1.02	0.89	1.03
DIGESTIVE ORGANS	1.02	1.02***	1.09***	1.03
STOMACH	1.15*	0.92***	1.02	1.01
COLON & RECTUM	1.00	1.07***	1.12**	1.01
LIVER (PRIMARY)	0.86	1.04	0.94	0.86*
TRACHEA, BRONCHUS, LUNG	1.01	1.09***	1.19***	1.18***
BREAST (FEMALE)	1.19**	1.08***	0.99	1.05
THYROID	1.25	0.99	0.82	1.21
BONES & JOINTS	0.93	1.06	1.20	0.86
BLADDER	1.00	1.05*	1.09	1.07
BRAIN & OTHER C.N.S.	1.17	1.00	0.91	1.01
BENIGN & UNSPEC NEOPLASMS	-	0.92	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Age at death: under 10 — All Electric Utilities

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1981	1.07	4203	0.99	789	1.01	1563	0.98
ALL CANCER, EXCL LEUK	1932	0.99	4567	1.03	1057	1.06	2010	1.01
HODGKIN'S DISEASE	41	1.32	67	0.94	8	0.96	17	0.99
OTHER LYMPHOMA	260	0.99	577	0.96	105	0.97	193	0.88
MULTIPLE MYELOMA	1	1.17	3	1.56	3	5.13	1	0.88
DIGESTIVE ORGANS	95	0.95	237	1.03	68	1.32	100	0.98
STOMACH	2	0.45	10	0.97	4	3.10	2	0.78
COLON & RECTUM	15	1.35	25	0.98	10	2.38	13	1.57
LIVER (PRIMARY)	59	1.01	140	1.05	43	1.14	73	0.98
TRACHEA, BRONCHUS, LUNG	13	0.80	42	1.14	12	1.14	11	0.54
BREAST (FEMALE)	2	0.77	14	2.38	2	0.94	2	0.48
THYROID	2	1.06	5	1.13	0	0.00	1	1.32
BONES & JOINTS	73	1.04	172	1.07	33	0.99	68	1.01
BLADDER	13	1.16	26	1.01	3	0.87	6	0.86
BRAIN & OTHER C.N.S.	789	1.01	1832	1.03	381	1.05	729	0.99
BENIGN & UNSPEC NEOPLASMS	47	1.28	80	0.97	85	0.97	146	0.89

Table 1-B,C,D

Age at death: under 10 — All Electric Utilities

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.08*	1.01	0.93	0.95
ALL CANCER, EXCL LEUK	0.94*	1.01	1.05	0.96
HODGKIN'S DISEASE	1.43	0.80	-	1.10
OTHER LYMPHOMA	0.93	1.03	0.92	0.91
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.93	1.26	1.25	0.91
STOMACH	-	-	-	-
COLON & RECTUM	1.79	1.37	-	1.64
LIVER (PRIMARY)	0.92	1.16	0.97	0.87
TRACHEA, BRONCHUS, LUNG	0.72	-	-	0.42*
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.04	0.94	0.95	0.96
BLADDER	1.25	-	-	-
BRAIN & OTHER C.N.S.	0.96	1.06	1.01	0.95
BENIGN & UNSPEC NEOPLASMS	1.39	1.14	0.75	0.92

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B,C,D

Age at death: 10 to 19 — All Electric Utilities

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	912	1.01	2008	0.98	660	0.94	1488	1.06
ALL CANCER, EXCL LEUK	1662	0.96	3804	0.97	1280	1.00	2478	0.97
HODGKIN'S DISEASE	167	0.94	389	0.97	78	0.82	222	1.15
OTHER LYMPHOMA	261	1.03	541	0.95	181	0.97	360	0.97
MULTIPLE MYELOMA	1	0.94	0	0.00	2	2.13	4	2.17
DIGESTIVE ORGANS	76	0.88	208	1.07	71	1.16	100	0.83
STOMACH	1	0.16	7	0.49	6	1.84	3	0.48
COLON & RECTUM	27	0.81	81	1.08	19	0.93	26	0.66
LIVER (PRIMARY)	29	1.03	74	1.17	34	1.30	53	1.03
TRACHEA, BRONCHUS, LUNG	15	0.76	40	0.88	15	1.22	26	1.07
BREAST (FEMALE)	1	0.27	7	0.82	3	1.22	1	0.20
THYROID	2	0.43	12	1.13	1	0.40	8	1.56
BONES & JOINTS	287	0.90	716	0.99	218	0.93	449	0.96
BLADDER	0	0.00	5	1.40	0	0.00	1	0.56
BRAIN & OTHER C.N.S.	422	0.99	909	0.93	339	1.04	615	0.94
BENIGN & UNSPEC NEOPLASMS	36	1.19	67	0.96	59	0.90	136	1.09

Table 1-B,C,D

Age at death: 10 to 19

All Electric Utilities

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.03	0.88*	0.92	1.05
ALL CANCER, EXCL LEUK	0.98	1.03	1.03	0.96
HODGKIN'S DISEASE	1.01	0.78	0.85	1.07
OTHER LYMPHOMA	1.12	0.99	0.93	0.96
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.85	1.30	1.40	0.76*
STOMACH	-	-	-	-
COLON & RECTUM	0.71	1.38	1.26	0.59*
LIVER (PRIMARY)	0.93	1.31	1.28	0.83
TRACHEA, BRONCHUS, LUNG	0.85	1.19	1.59	1.28
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.91	0.99	1.03	0.96
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.01	1.05	1.06	0.99
BENIGN & UNSPEC NEOPLASMS	1.30	0.79	0.70	1.12

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B,C,D

Age at death: 20 to 39 — All Electric Utilities

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1377	0.99	2899	0.93	1291	1.03	2394	1.03
ALL CANCER, EXCL LEUK	12065	0.97	27496	0.99	9424	0.97	18477	1.01
HODGKIN'S DISEASE	1132	1.02	2578	1.04	732	1.04	1506	1.13
OTHER LYMPHOMA	662	0.96	1540	1.00	672	1.05	1234	1.03
MULTIPLE MYELOMA	58	1.07	132	1.09	49	1.15	96	1.21
DIGESTIVE ORGANS	1963	0.93	4851	1.02	1328	0.92	2622	0.97
STOMACH	365	0.83	1002	1.01	227	0.93	411	0.90
COLON & RECTUM	970	0.94	2373	1.02	621	0.90	1272	0.97
LIVER (PRIMARY)	223	1.03	476	0.99	159	1.03	296	1.05
TRACHEA, BRONCHUS, LUNG	889	0.93	2086	0.99	878	0.97	1645	0.96
BREAST (FEMALE)	1682	0.98	3894	1.01	1424	0.98	2972	1.07
THYROID	38	0.93	93	1.01	31	1.22	55	1.13
BONES & JOINTS	245	1.07	496	0.97	214	1.08	357	0.98
BLADDER	63	1.18	114	0.95	33	1.07	67	1.14
BRAIN & OTHER C.N.S.	1036	0.96	2267	0.93	858	0.94	1656	0.96
BENIGN & UNSPEC NEOPLASMS	64	0.87	170	1.05	191	0.98	334	0.97

Table 1-B,C,D

Age at death: 20 to 39 — All Electric Utilities

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.06	1.03	1.04	1.10**
ALL CANCER, EXCL LEUK	1.01	0.99	1.02	1.01
HODGKIN'S DISEASE	1.05	1.02	1.01	1.03
OTHER LYMPHOMA	0.99	1.07	1.09	0.96
MULTIPLE MYELOMA	0.99	1.05	1.03	1.07
DIGESTIVE ORGANS	0.95	0.97	1.00	0.94**
STOMACH	0.84**	0.98	1.11	0.86*
COLON & RECTUM	0.98	0.97	0.96	0.95
LIVER (PRIMARY)	1.09	1.01	1.03	1.05
TRACHEA, BRONCHUS, LUNG	0.95	1.01	1.07	1.00
BREAST (FEMALE)	1.02	0.94	0.97	1.04
THYROID	0.90	1.15	1.31	1.13
BONES & JOINTS	1.16	1.21*	1.10	1.00
BLADDER	1.39*	0.85	0.87	1.28
BRAIN & OTHER C.N.S.	1.01	1.00	0.97	1.04
BENIGN & UNSPEC NEOPLASMS	0.84	1.07	1.21	0.87

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B,C,D

Age at death: 40 to 59 — All Electric Utilities

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3099	0.98	7200	0.97	2605	1.01	5331	1.00
ALL CANCER, EXCL LEUK	89875	0.99	211918	1.00	81518	0.98	172196	1.01
HODGKIN'S DISEASE	1163	0.94	2949	1.02	646	0.99	1493	1.09
OTHER LYMPHOMA	2849	1.05	6147	0.97	2671	1.03	5556	1.03
MULTIPLE MYELOMA	1002	0.99	2298	0.98	974	0.95	1999	0.96
DIGESTIVE ORGANS	24022	0.98	58005	1.01	18319	0.99	39564	1.04
STOMACH	4408	0.92	11211	1.00	2554	1.00	5594	1.07
COLON & RECTUM	10631	1.02	25526	1.04	8168	1.00	18325	1.08
LIVER (PRIMARY)	2378	0.95	5835	1.00	1048	0.92	2087	0.89
TRACHEA, BRONCHUS, LUNG	17608	0.99	40828	0.98	22874	0.95	46931	0.95
BREAST (FEMALE)	12622	1.00	29839	1.01	12024	1.04	25097	1.06
THYROID	254	0.85	761	1.08	182	0.99	386	1.01
BONES & JOINTS	506	0.96	1222	0.98	238	0.90	517	0.94
BLADDER	1454	1.04	3497	1.07	972	1.04	2100	1.08
BRAIN & OTHER C.N.S.	3351	1.01	7705	0.99	2841	0.95	6089	0.98
BENIGN & UNSPEC NEOPLASMS	259	1.01	724	1.20	588	0.93	1227	0.99

Table 1-B,C,D

Age at death: 40 to 59 — All Electric Utilities

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	1.02	1.03	1.02
ALL CANCER, EXCL LEUK	1.00	0.99	0.98***	0.99
HODGKIN'S DISEASE	0.97	1.00	1.07	1.06
OTHER LYMPHOMA	1.10***	1.01	0.95	1.04*
MULTIPLE MYELOMA	1.00	1.02	0.96	0.97
DIGESTIVE ORGANS	1.01	1.00	1.00	1.00
STOMACH	0.96*	0.97	1.03	1.02
COLON & RECTUM	1.05***	0.99	0.97	1.01
LIVER (PRIMARY)	0.98	1.04	0.97	0.88***
TRACHEA, BRONCHUS, LUNG	1.00	0.99	0.96***	0.99
BREAST (FEMALE)	1.01	1.02	1.01	1.01
THYROID	0.83*	1.07	1.13	0.89
BONES & JOINTS	1.02	1.00	1.01	0.98
BLADDER	0.98	0.99	1.00	0.98
BRAIN & OTHER C.N.S.	1.01	0.94**	0.95	1.01
BENIGN & UNSPEC NEOPLASMS	0.89	0.98	0.91	0.79***

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B,C,D

Age at death: 60 plus

All Electric Utilities

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8380	0.97	19260	0.96	9754	0.97	20141	1.00
ALL CANCER, EXCL LEUK	222886	0.98	539734	1.02	269379	1.02	555505	1.05
HODGKIN'S DISEASE	1274	0.92	3460	1.07	1028	1.03	2066	1.02
OTHER LYMPHOMA	5813	1.07	12222	0.97	8436	1.05	16123	1.00
MULTIPLE MYELOMA	2726	1.00	6292	1.00	4480	1.00	9011	1.02
DIGESTIVE ORGANS	85514	0.96	213825	1.03	85215	1.03	178208	1.07
STOMACH	17859	0.92	47299	1.04	12016	1.05	25765	1.11
COLON & RECTUM	39428	1.00	97226	1.06	42838	1.04	89556	1.09
LIVER (PRIMARY)	8256	0.93	21088	1.01	4136	0.94	8820	0.97
TRACHEA, BRONCHUS, LUNG	34534	0.99	79849	0.99	63194	1.00	127583	1.01
BREAST (FEMALE)	16928	0.99	40465	1.02	21478	1.06	44392	1.09
THYROID	882	0.96	2112	0.98	792	1.04	1582	1.03
BONES & JOINTS	1192	0.95	3033	1.02	709	0.95	1440	0.96
BLADDER	8872	1.06	21357	1.09	8895	1.06	18330	1.10
BRAIN & OTHER C.N.S.	2720	1.04	5743	0.94	4966	1.02	9937	1.02
BENIGN & UNSPEC NEOPLASMS	543	1.01	1265	1.00	1852	1.04	3903	1.14

Table 1-B,C,D

Age at death: 60 plus

All Electric Utilities

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	0.98	0.99	1.04**
ALL CANCER, EXCL LEUK	0.99	1.00	1.02***	1.01
HODGKIN'S DISEASE	0.88***	1.02	1.16**	0.96
OTHER LYMPHOMA	1.09***	1.05***	0.97	1.03*
MULTIPLE MYELOMA	0.98	0.98	1.01	1.02
DIGESTIVE ORGANS	0.98***	1.01	1.04***	1.01
STOMACH	0.94***	0.99	1.08***	1.03***
COLON & RECTUM	1.01	1.02***	1.03***	1.00
LIVER (PRIMARY)	0.95***	0.99	1.00	0.95***
TRACHEA, BRONCHUS, LUNG	1.00	0.99	0.99	1.01
BREAST (FEMALE)	1.00	1.01	1.04***	1.03***
THYROID	1.00	1.05	1.05	1.02
BONES & JOINTS	0.99	1.05	1.01	0.96
BLADDER	1.01	1.01	0.98	0.98*
BRAIN & OTHER C.N.S.	1.06*	0.98	0.96	1.09***
BENIGN & UNSPEC NEOPLASMS	1.03	0.95	1.01	1.05

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B,C,D

Age at death: all

All Electric Utilities

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	15749	0.99	35570	0.97	15099	0.98	30917	1.00
ALL CANCER, EXCL LEUK	328420	0.98	787519	1.01	362658	1.01	750666	1.04
HODGKIN'S DISEASE	3777	0.96	9443	1.04	2492	1.01	5304	1.07
OTHER LYMPHOMA	9845	1.05	21027	0.97	12065	1.04	23466	1.01
MULTIPLE MYELOMA	3788	1.00	8725	1.00	5508	0.99	11111	1.01
DIGESTIVE ORGANS	111670	0.97	277126	1.03	105001	1.02	220594	1.07
STOMACH	22635	0.92	59529	1.03	14807	1.04	31775	1.10
COLON & RECTUM	51071	1.00	125231	1.05	51656	1.03	109192	1.09
LIVER (PRIMARY)	10945	0.93	27613	1.01	5420	0.94	11329	0.96
TRACHEA, BRONCHUS, LUNG	53059	0.99	122845	0.99	86973	0.99	176196	1.00
BREAST (FEMALE)	31235	0.99	74219	1.02	34931	1.05	72464	1.08
THYROID	1178	0.93	2983	1.01	1006	1.03	2032	1.03
BONES & JOINTS	2303	0.96	5639	1.01	1412	0.96	2831	0.96
BLADDER	10402	1.06	24999	1.09	9903	1.06	20504	1.10
BRAIN & OTHER C.N.S.	8318	1.01	18456	0.97	9385	0.99	19026	1.00
BENIGN & UNSPEC NEOPLASMS	949	1.02	2306	1.05	2775	1.01	5746	1.08

Table 1-B,C,D

Age at death: all

All Electric Utilities

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.02	0.99	0.99	1.03***
ALL CANCER, EXCL LEUK	0.99	0.99	1.01	1.01
HODGKIN'S DISEASE	0.96*	1.00	1.07*	1.01
OTHER LYMPHOMA	1.08***	1.04***	0.97*	1.03*
MULTIPLE MYELOMA	0.98	0.99	1.00	1.01
DIGESTIVE ORGANS	0.99	1.01	1.03***	1.01
STOMACH	0.94***	0.99	1.07***	1.03***
COLON & RECTUM	1.02***	1.02**	1.02**	1.00
LIVER (PRIMARY)	0.96***	1.00	0.99	0.94***
TRACHEA, BRONCHUS, LUNG	0.99	0.99	0.98**	1.00
BREAST (FEMALE)	1.01	1.01	1.02**	1.02***
THYROID	0.95	1.05	1.07	1.00
BONES & JOINTS	1.00	1.05	1.02	0.97
BLADDER	1.01	1.00	0.98	0.98*
BRAIN & OTHER C.N.S.	1.02	0.97	0.96*	1.04***
BENIGN & UNSPEC NEOPLASMS	0.99	0.97	0.97	0.97

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-B

Age at death: under 10 — Electric Utilities < 1970

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	593	1.09	1035	1.05	534	1.03	993	1.00
ALL CANCER, EXCL LEUK	600	1.07	1038	1.02	654	1.07	1200	1.05
HODGKIN'S DISEASE	5	0.55	14	0.81	7	1.15	15	1.24
OTHER LYMPHOMA	82	1.05	143	1.00	73	1.04	114	0.85
MULTIPLE MYELOMA	1	3.79	0	0.00	0	0.00	1	2.03
DIGESTIVE ORGANS	36	1.22	62	1.15	45	1.46	59	1.05
STOMACH	1	0.72	3	1.11	1	1.36	1	0.75
COLON & RECTUM	2	0.58	8	1.22	8	3.27	7	1.57
LIVER (PRIMARY)	25	1.50	35	1.17	27	1.21	40	1.00
TRACHEA, BRONCHUS, LUNG	2	0.44	12	1.42	9	1.49	8	0.76
BREAST (FEMALE)	0	0.00	2	1.29	2	1.94	1	0.58
THYROID	0	0.00	0	0.00	0	0.00	1	1.78
BONES & JOINTS	22	1.08	37	0.99	17	0.81	42	1.05
BLADDER	3	0.89	6	0.95	0	0.00	3	0.65
BRAIN & OTHER C.N.S.	256	1.12	415	1.00	239	1.05	445	1.03
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	51	0.99	72	0.87

Table 1-B

Age at death: under 10 — Electric Utilities < 1970

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.03	1.00	0.95	0.95
ALL CANCER, EXCL LEUK	0.99	0.96	1.00	1.02
HODGKIN'S DISEASE	-	0.76	-	1.65
OTHER LYMPHOMA	0.90	1.12	0.98	0.86
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.20	1.27	1.20	0.86
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	1.50	1.27	0.81	0.75
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.16	0.73	0.70	1.05
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.10	1.01	0.93	1.03
BENIGN & UNSPEC NEOPLASMS	-	1.17	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B

Age at death: 10 to 19 — Electric Utilities < 1970

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	247	1.07	394	1.00	397	0.94	825	1.08
ALL CANCER, EXCL LEUK	410	0.93	731	0.98	797	1.02	1454	1.03
HODGKIN'S DISEASE	41	0.83	93	1.14	50	0.81	154	1.33
OTHER LYMPHOMA	62	0.95	114	1.05	116	1.02	216	1.04
MULTIPLE MYELOMA	1	3.33	0	0.00	1	2.08	1	1.27
DIGESTIVE ORGANS	12	0.54	38	1.01	44	1.23	58	0.92
STOMACH	0	0.00	1	0.35	4	2.04	2	0.58
COLON & RECTUM	5	0.56	12	0.78	10	0.85	17	0.84
LIVER (PRIMARY)	6	0.88	15	1.33	20	1.34	29	1.10
TRACHEA, BRONCHUS, LUNG	4	0.77	4	0.44	10	1.31	18	1.32
BREAST (FEMALE)	0	0.00	1	0.59	2	1.36	1	0.38
THYROID	0	0.00	1	0.45	1	0.64	4	1.36
BONES & JOINTS	78	0.94	121	0.87	139	0.97	265	1.02
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	101	0.92	173	0.92	205	1.04	359	1.01
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	36	0.90	81	1.23

Table 1-B

Age at death: 10 to 19 — Electric Utilities < 1970

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.11	0.88*	0.89	1.07
ALL CANCER, EXCL LEUK	0.94	0.99	1.10	1.04
HODGKIN'S DISEASE	0.87	0.68*	0.90	1.22
OTHER LYMPHOMA	1.01	0.95	1.08	0.97
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.68	1.19	2.30**	0.87
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	0.97
LIVER (PRIMARY)	-	1.26	1.42	0.78
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.10	0.96	1.00	1.13
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.91	0.96	1.13	1.12
BENIGN & UNSPEC NEOPLASMS	-	0.68	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B

Age at death: 20 to 39 — Electric Utilities < 1970

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	400	1.04	618	0.93	736	1.02	1184	1.03
ALL CANCER, EXCL LEUK	3225	0.94	6040	1.00	5425	0.96	9569	1.03
HODGKIN'S DISEASE	324	1.03	594	1.11	456	1.03	913	1.24
OTHER LYMPHOMA	190	1.00	355	1.10	394	1.07	673	1.14
MULTIPLE MYELOMA	20	1.34	31	1.16	29	1.19	51	1.28
DIGESTIVE ORGANS	556	0.93	1140	1.05	769	0.91	1393	1.00
STOMACH	100	0.78	252	1.07	144	0.99	220	0.91
COLON & RECTUM	276	0.93	547	1.02	355	0.87	683	1.01
LIVER (PRIMARY)	62	1.03	110	1.02	83	0.94	150	1.07
TRACHEA, BRONCHUS, LUNG	216	0.89	405	0.97	492	0.93	808	0.92
BREAST (FEMALE)	494	1.06	924	1.09	820	0.99	1518	1.09
THYROID	10	0.86	17	0.82	18	1.16	27	1.03
BONES & JOINTS	56	0.87	114	1.05	118	1.03	185	1.04
BLADDER	18	1.18	25	0.89	23	1.25	32	1.03
BRAIN & OTHER C.N.S.	324	1.07	481	0.91	482	0.90	826	0.95
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	102	0.89	178	1.06

Table 1-B

Age at death: 20 to 39 — Electric Utilities < 1970

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.16*	1.02	0.99	1.11*
ALL CANCER, EXCL LEUK	1.01	0.97	1.02	1.03
HODGKIN'S DISEASE	1.09	0.99	1.00	1.11*
OTHER LYMPHOMA	1.04	1.03	1.08	1.01
MULTIPLE MYELOMA	1.20	1.05	0.89	1.16
DIGESTIVE ORGANS	0.96	0.95	0.98	0.93
STOMACH	0.74*	1.01	1.27	0.83*
COLON & RECTUM	1.02	0.94	0.94	0.98
LIVER (PRIMARY)	1.18	0.89	0.93	1.02
TRACHEA, BRONCHUS, LUNG	0.95	1.01	1.06	0.97
BREAST (FEMALE)	1.10	0.95	0.92	0.99
THYROID	-	1.23	1.29	1.14
BONES & JOINTS	0.93	1.12	1.19	1.00
BLADDER	1.76	1.06	1.03	1.20
BRAIN & OTHER C.N.S.	1.16	0.99	0.85*	1.05
BENIGN & UNSPEC NEOPLASMS	-	0.90	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B

Age at death: 40 to 59 — Electric Utilities < 1970

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	822	1.00	1486	0.95	1511	1.01	2887	1.03
ALL CANCER, EXCL LEUK	21931	0.99	42690	1.03	46309	0.98	88826	1.01
HODGKIN'S DISEASE	296	0.90	625	1.00	406	0.96	926	1.10
OTHER LYMPHOMA	719	1.09	1274	1.03	1550	1.04	2967	1.06
MULTIPLE MYELOMA	229	0.97	431	0.98	546	0.97	996	0.96
DIGESTIVE ORGANS	6281	1.00	13038	1.09	10612	1.00	21289	1.06
STOMACH	1267	0.98	2754	1.09	1604	1.06	3206	1.11
COLON & RECTUM	2821	1.05	5896	1.15	4704	1.00	9886	1.10
LIVER (PRIMARY)	660	0.94	1312	0.96	602	0.88	1191	0.88
TRACHEA, BRONCHUS, LUNG	3773	0.99	6912	0.98	12619	0.96	22007	0.92
BREAST (FEMALE)	3349	1.08	6231	1.08	7096	1.08	13732	1.11
THYROID	71	0.87	179	1.14	111	1.02	238	1.14
BONES & JOINTS	117	0.80	252	0.89	133	0.81	303	0.95
BLADDER	401	1.11	801	1.14	559	1.02	1172	1.11
BRAIN & OTHER C.N.S.	833	1.00	1498	0.95	1623	0.94	3174	0.97
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	346	0.95	665	1.05

Table 1-B

Age at death: 40 to 59 — Electric Utilities < 1970

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.07	1.01	1.01	1.07*
ALL CANCER, EXCL LEUK	1.01	1.01	0.99	0.97***
HODGKIN'S DISEASE	0.94	0.98	1.06	1.09
OTHER LYMPHOMA	1.10	1.01	0.95	1.01
MULTIPLE MYELOMA	1.01	1.05	1.00	0.96
DIGESTIVE ORGANS	1.00	1.01	1.00	0.96***
STOMACH	0.98	1.01	1.08*	1.00
COLON & RECTUM	1.04	0.99	0.95*	0.95**
LIVER (PRIMARY)	1.02	0.99	0.92	0.88**
TRACHEA, BRONCHUS, LUNG	1.04	1.05***	0.97	0.92***
BREAST (FEMALE)	1.03	1.03	1.00	1.01
THYROID	0.94	0.99	1.17	0.99
BONES & JOINTS	0.96	0.91	1.00	1.04
BLADDER	1.02	0.95	0.93	0.98
BRAIN & OTHER C.N.S.	1.02	0.92**	0.93	1.03
BENIGN & UNSPEC NEOPLASMS	-	0.94	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B

Age at death: 60 plus — Electric Utilities < 1970

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	2026	1.01	3702	1.00	5300	0.99	9585	1.00
ALL CANCER, EXCL LEUK	53736	1.00	107246	1.07	143973	1.03	263626	1.07
HODGKIN'S DISEASE	296	0.85	658	1.01	582	1.00	1132	1.04
OTHER LYMPHOMA	1349	1.13	2223	1.03	4441	1.06	7323	1.00
MULTIPLE MYELOMA	615	1.12	1000	1.02	2248	0.99	4029	1.03
DIGESTIVE ORGANS	22156	1.00	46014	1.10	46969	1.05	89716	1.12
STOMACH	5132	0.97	11199	1.09	7050	1.09	13922	1.16
COLON & RECTUM	9919	1.03	20574	1.14	23363	1.06	44939	1.14
LIVER (PRIMARY)	2333	0.91	4978	1.02	2350	0.92	4869	0.99
TRACHEA, BRONCHUS, LUNG	7165	1.04	13301	1.07	32930	1.04	56280	1.02
BREAST (FEMALE)	4436	1.08	8379	1.11	11714	1.08	21354	1.12
THYROID	246	1.03	475	1.06	441	1.04	827	1.08
BONES & JOINTS	325	0.97	621	0.96	409	0.94	763	0.93
BLADDER	2259	1.11	4675	1.22	4879	1.09	9111	1.13
BRAIN & OTHER C.N.S.	567	1.08	936	0.98	2589	1.05	4326	1.01
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	977	1.06	1841	1.20

Table 1-B

Age at death: 60 plus — Electric Utilities < 1970

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.02	0.99	0.99	1.01
ALL CANCER, EXCL LEUK	0.99	1.01	1.02***	0.98***
HODGKIN'S DISEASE	0.83*	0.97	1.16*	1.03
OTHER LYMPHOMA	1.06	1.08***	0.94*	0.96
MULTIPLE MYELOMA	1.09	0.95	0.89**	1.01
DIGESTIVE ORGANS	0.99	1.02**	1.04***	1.00
STOMACH	0.97	1.02	1.11***	1.03*
COLON & RECTUM	1.01	1.02*	1.02	0.98*
LIVER (PRIMARY)	0.93**	0.99	0.97	0.94**
TRACHEA, BRONCHUS, LUNG	1.01	1.03***	0.99	0.94***
BREAST (FEMALE)	1.02	1.01	1.01	1.00
THYROID	1.01	1.04	1.00	0.99
BONES & JOINTS	1.19*	1.10	0.97	0.95
BLADDER	0.99	1.03	0.97	0.92***
BRAIN & OTHER C.N.S.	1.08	1.03	0.97	1.02
BENIGN & UNSPEC NEOPLASMS	-	0.92*	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B

Age at death: all — Electric Utilities < 1970

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4088	1.02	7235	0.99	8478	1.00	15474	1.01
ALL CANCER, EXCL LEUK	79902	1.00	157745	1.06	197158	1.02	364675	1.05
HODGKIN'S DISEASE	962	0.92	1984	1.04	1501	0.99	3140	1.12
OTHER LYMPHOMA	2402	1.10	4109	1.04	6574	1.06	11293	1.02
MULTIPLE MYELOMA	866	1.08	1462	1.01	2824	0.99	5078	1.02
DIGESTIVE ORGANS	29041	1.00	60292	1.10	58439	1.04	112515	1.11
STOMACH	6500	0.97	14209	1.09	8803	1.09	17351	1.15
COLON & RECTUM	13023	1.03	27037	1.14	28440	1.05	55532	1.13
LIVER (PRIMARY)	3086	0.92	6450	1.01	3082	0.92	6279	0.97
TRACHEA, BRONCHUS, LUNG	11160	1.02	20634	1.04	46060	1.01	79121	0.99
BREAST (FEMALE)	8279	1.07	15537	1.10	19634	1.08	36606	1.12
THYROID	327	0.98	672	1.07	571	1.04	1097	1.09
BONES & JOINTS	598	0.92	1145	0.94	816	0.93	1558	0.97
BLADDER	2681	1.11	5507	1.20	5461	1.08	10318	1.13
BRAIN & OTHER C.N.S.	2081	1.04	3503	0.95	5138	1.00	9130	0.99
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1512	1.01	2837	1.14

Table 1-B

Age at death: all

Electric Utilities < 1970

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.05*	0.99	0.98	1.03
ALL CANCER, EXCL LEUK	1.00	1.01	1.01	0.98***
HODGKIN'S DISEASE	0.94	0.96	1.07	1.08**
OTHER LYMPHOMA	1.06*	1.06**	0.96	0.98
MULTIPLE MYELOMA	1.07	0.97	0.91*	1.00
DIGESTIVE ORGANS	0.99	1.01	1.03***	0.99
STOMACH	0.97*	1.02	1.11***	1.02
COLON & RECTUM	1.01	1.02*	1.01	0.98**
LIVER (PRIMARY)	0.96	0.99	0.96	0.93***
TRACHEA, BRONCHUS, LUNG	1.02	1.04***	0.98	0.93***
BREAST (FEMALE)	1.03	1.02	1.00	1.00
THYROID	0.98	1.04	1.05	1.00
BONES & JOINTS	1.10	1.03	0.99	1.00
BLADDER	1.00	1.02	0.97	0.93***
BRAIN & OTHER C.N.S.	1.06	0.99	0.94*	1.03
BENIGN & UNSPEC NEOPLASMS	-	0.92*	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C

Age at death: under 10 — Electric Utilities 1970-74

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	996	1.06	2383	0.98	227	1.00	482	0.94
ALL CANCER, EXCL LEUK	921	0.94	2600	1.03	340	1.07	687	0.97
HODGKIN'S DISEASE	25	1.60	41	1.02	1	0.50	2	0.44
OTHER LYMPHOMA	131	0.99	309	0.90	29	0.91	65	0.90
MULTIPLE MYELOMA	0	0.00	2	2.00	3	12.30	0	0.00
DIGESTIVE ORGANS	43	0.86	127	0.98	21	1.23	36	0.96
STOMACH	1	0.47	4	0.72	3	6.65	1	1.02
COLON & RECTUM	9	1.66	14	0.99	1	0.70	5	1.64
LIVER (PRIMARY)	24	0.81	74	0.98	15	1.16	29	1.01
TRACHEA, BRONCHUS, LUNG	7	0.86	22	1.05	3	0.83	3	0.38
BREAST (FEMALE)	2	1.63	10	3.16	0	0.00	0	0.00
THYROID	2	2.14	4	1.61	0	0.00	0	0.00
BONES & JOINTS	36	1.01	108	1.18	13	1.27	21	0.91
BLADDER	8	1.43	16	1.10	2	2.17	3	1.47
BRAIN & OTHER C.N.S.	366	0.93	1054	1.04	109	0.97	245	0.97
BENIGN & UNSPEC NEOPLASMS	27	1.25	45	0.90	25	0.79	71	1.00

Table 1-C

Age at death: under 10 — Electric Utilities 1970-74

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.09*	1.06	0.96	0.95
ALL CANCER, EXCL LEUK	0.89**	1.07	1.12	0.94
HODGKIN'S DISEASE	1.60	-	-	-
OTHER LYMPHOMA	1.00	0.97	0.90	0.98
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.90	1.26	1.49	1.06
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.80	1.08	1.41	1.10
TRACHEA, BRONCHUS, LUNG	0.78	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.90	1.30	1.18	0.82
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.87*	1.00	1.01	0.92
BENIGN & UNSPEC NEOPLASMS	1.53	0.83	0.56*	1.15

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-C

Age at death: 10 to 19 — Electric Utilities 1970-74

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	469	1.01	1180	0.99	223	0.96	576	1.08
ALL CANCER, EXCL LEUK	883	1.00	2234	0.98	401	0.94	855	0.89
HODGKIN'S DISEASE	93	1.02	231	0.98	23	0.82	56	0.88
OTHER LYMPHOMA	143	1.09	317	0.95	58	0.96	119	0.86
MULTIPLE MYELOMA	0	0.00	0	0.00	1	2.68	3	3.51
DIGESTIVE ORGANS	50	1.16	113	1.03	19	0.90	34	0.73
STOMACH	1	0.32	3	0.38	1	0.92	1	0.43
COLON & RECTUM	15	0.91	48	1.15	8	1.11	6	0.39
LIVER (PRIMARY)	17	1.19	37	1.02	8	0.87	20	0.97
TRACHEA, BRONCHUS, LUNG	8	0.79	24	0.92	5	1.27	7	0.78
BREAST (FEMALE)	1	0.54	6	1.23	1	1.21	0	0.00
THYROID	1	0.42	9	1.47	0	0.00	3	1.65
BONES & JOINTS	134	0.81	439	1.04	66	0.87	151	0.87
BLADDER	0	0.00	5	2.45	0	0.00	1	1.56
BRAIN & OTHER C.N.S.	230	1.05	516	0.91	114	1.05	221	0.89
BENIGN & UNSPEC NEOPLASMS	27	1.52	42	0.99	22	0.96	53	1.01

Table 1-C

Age at death: 20 to 39 — Electric Utilities 1970-74

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	665	0.96	1660	0.96	474	1.09	982	1.03
ALL CANCER, EXCL LEUK	6104	0.99	15567	1.00	3248	0.98	7235	1.00
HODGKIN'S DISEASE	592	1.06	1481	1.05	231	1.06	489	1.01
OTHER LYMPHOMA	331	0.96	886	1.03	217	0.98	463	0.95
MULTIPLE MYELOMA	27	1.00	75	1.12	14	0.94	35	1.11
DIGESTIVE ORGANS	986	0.95	2718	1.04	453	0.93	994	0.95
STOMACH	182	0.84	535	0.99	67	0.82	153	0.88
COLON & RECTUM	493	0.97	1356	1.05	217	0.92	481	0.95
LIVER (PRIMARY)	116	1.10	266	1.01	67	1.25	109	0.97
TRACHEA, BRONCHUS, LUNG	463	0.95	1196	1.00	309	0.98	684	1.01
BREAST (FEMALE)	830	0.97	2202	1.02	500	0.97	1161	1.04
THYROID	24	1.17	61	1.18	13	1.57	23	1.27
BONES & JOINTS	126	1.12	260	0.92	80	1.18	142	0.95
BLADDER	30	1.13	56	0.84	7	0.68	30	1.34
BRAIN & OTHER C.N.S.	491	0.91	1306	0.96	310	0.98	688	0.98
BENIGN & UNSPEC NEOPLASMS	35	0.85	93	1.01	82	1.18	134	0.88

Table 1-C

Age at death: 10 to 19 — Electric Utilities 1970-74

Disease	Relative Risks: Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.01	0.87	0.95	1.07
ALL CANCER, EXCL LEUK	0.99	1.06	0.94	0.91*
HODGKIN'S DISEASE	1.03	0.96	0.78	0.90
OTHER LYMPHOMA	1.15	1.08	0.85	0.92
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.09	1.30	0.81	0.70
STOMACH	-	-	-	-
COLON & RECTUM	0.72	-	1.17	0.35*
LIVER (PRIMARY)	1.14	0.93	0.78	0.91
TRACHEA, BRONCHUS, LUNG	0.86	-	-	0.88
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.78*	1.02	1.07	0.84
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.08	1.15	0.99	0.97
BENIGN & UNSPEC NEOPLASMS	1.68*	0.95	0.68	1.31

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C

Age at death: 20 to 39 — Electric Utilities 1970-74

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.99	1.06	1.14*	1.08
ALL CANCER, EXCL LEUK	0.99	0.98	0.99	1.00
HODGKIN'S DISEASE	1.05	1.06	1.00	0.96
OTHER LYMPHOMA	0.94	1.05	1.04	0.92
MULTIPLE MYELOMA	0.96	0.96	0.96	0.96
DIGESTIVE ORGANS	0.94	0.96	0.98	0.93*
STOMACH	0.88	0.90	0.93	0.90
COLON & RECTUM	0.97	0.97	0.97	0.92
LIVER (PRIMARY)	1.09	1.31	1.13	0.98
TRACHEA, BRONCHUS, LUNG	0.92	0.95	1.02	1.01
BREAST (FEMALE)	0.98	0.93	0.99	1.04
THYROID	1.11	1.25	1.46	1.08
BONES & JOINTS	1.25*	1.35*	1.07	1.07
BLADDER	1.49	0.50	0.59	1.64*
BRAIN & OTHER C.N.S.	0.93	0.98	1.08	1.03
BENIGN & UNSPEC NEOPLASMS	0.87	1.39*	1.46	0.90

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C

Age at death: 40 to 59 — Electric Utilities 1970-74

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1599	0.96	4271	0.98	904	0.98	2020	0.97
ALL CANCER, EXCL LEUK	47765	1.00	125072	1.01	29393	0.97	68437	1.00
HODGKIN'S DISEASE	618	0.94	1811	1.06	211	1.07	478	1.07
OTHER LYMPHOMA	1582	1.09	3653	0.97	943	1.02	2161	1.02
MULTIPLE MYELOMA	516	0.98	1346	0.99	348	0.91	804	0.94
DIGESTIVE ORGANS	12751	0.99	34228	1.02	6485	0.99	15112	1.02
STOMACH	2241	0.91	6628	1.03	814	0.93	1983	1.02
COLON & RECTUM	5745	1.05	15163	1.05	2937	1.01	7018	1.06
LIVER (PRIMARY)	1256	0.98	3486	1.03	379	1.02	729	0.89
TRACHEA, BRONCHUS, LUNG	9339	0.98	23922	0.97	8381	0.92	20119	0.98
BREAST (FEMALE)	6665	1.00	17782	1.02	4166	1.01	9416	1.00
THYROID	126	0.81	452	1.10	60	0.95	127	0.89
BONES & JOINTS	277	1.01	710	0.99	89	1.03	180	0.92
BLADDER	709	0.97	2022	1.06	342	1.05	775	1.04
BRAIN & OTHER C.N.S.	1762	1.00	4546	0.99	1020	0.96	2417	0.99
BENIGN & UNSPEC NEOPLASMS	159	1.05	450	1.20	215	0.92	485	0.91

Table 1-C

Age at death: 40 to 59 — Electric Utilities 1970-74

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.97	1.02	1.03	0.99
ALL CANCER, EXCL LEUK	0.99	0.97***	0.97***	1.00
HODGKIN'S DISEASE	0.93	1.07	1.12	1.03
OTHER LYMPHOMA	1.13***	1.00	0.93	1.06*
MULTIPLE MYELOMA	0.97	0.98	0.92	0.95
DIGESTIVE ORGANS	0.99	0.98	0.99	1.01
STOMACH	0.91***	0.93	1.00	1.01
COLON & RECTUM	1.04**	0.98	0.98	1.03
LIVER (PRIMARY)	0.95	1.12	1.02	0.87***
TRACHEA, BRONCHUS, LUNG	0.97*	0.92***	0.93***	1.00
BREAST (FEMALE)	1.00	1.01	1.01	0.99
THYROID	0.74**	1.15	1.12	0.83
BONES & JOINTS	1.06	1.10	1.01	0.95
BLADDER	0.90*	1.02	1.07	0.99
BRAIN & OTHER C.N.S.	1.00	0.96	0.96	1.00
BENIGN & UNSPEC NEOPLASMS	0.94	1.04	0.92	0.79***

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C

Age at death: 60 plus — Electric Utilities 1970-74

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4625	0.96	11678	0.96	3787	0.95	8763	1.00
ALL CANCER, EXCL LEUK	123535	0.99	326417	1.03	105793	1.00	239992	1.03
HODGKIN'S DISEASE	719	0.93	2170	1.10	379	1.06	785	1.00
OTHER LYMPHOMA	3236	1.06	7412	0.97	3412	1.05	7337	1.02
MULTIPLE MYELOMA	1443	0.96	3812	1.01	1876	1.02	4068	1.01
DIGESTIVE ORGANS	47481	0.98	130579	1.05	32661	1.01	73616	1.04
STOMACH	9604	0.92	29101	1.07	4269	1.00	10138	1.10
COLON & RECTUM	22351	1.02	59569	1.07	16662	1.03	37033	1.05
LIVER (PRIMARY)	4525	0.94	12725	1.02	1534	0.98	3257	0.96
TRACHEA, BRONCHUS, LUNG	18924	0.97	47284	0.97	24927	0.96	57100	1.00
BREAST (FEMALE)	9310	1.00	24499	1.03	8330	1.04	19300	1.07
THYROID	491	0.98	1233	0.95	311	1.07	631	0.99
BONES & JOINTS	660	0.96	1859	1.05	271	1.02	579	1.00
BLADDER	4985	1.07	12846	1.08	3410	1.03	7667	1.08
BRAIN & OTHER C.N.S.	1511	1.04	3368	0.92	2019	1.01	4594	1.03
BENIGN & UNSPEC NEOPLASMS	324	1.00	791	1.03	794	1.06	1822	1.12

Table 1-C

Age at death: 60 plus

Electric Utilities 1970-74

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	0.96	1.00	1.05***
ALL CANCER, EXCL LEUK	0.98***	0.98***	1.02***	1.01
HODGKIN'S DISEASE	0.87**	1.08	1.14*	0.91*
OTHER LYMPHOMA	1.10***	1.03	1.00	1.06***
MULTIPLE MYELOMA	0.93*	1.02	1.08*	1.00
DIGESTIVE ORGANS	0.97***	1.00	1.04***	1.01
STOMACH	0.89***	0.94**	1.07***	1.04***
COLON & RECTUM	1.01	1.03***	1.03**	1.00
LIVER (PRIMARY)	0.95**	0.99	1.03	0.96*
TRACHEA, BRONCHUS, LUNG	0.97***	0.94***	0.98**	1.03***
BREAST (FEMALE)	1.01	1.01	1.06***	1.05***
THYROID	1.05	1.11	1.10	1.06
BONES & JOINTS	0.96	1.03	1.07	0.96
BLADDER	1.00	0.97	0.97	1.00
BRAIN & OTHER C.N.S.	1.08*	0.95	0.95	1.12***
BENIGN & UNSPEC NEOPLASMS	1.01	1.00	1.07	1.10*

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C

Age at death: all — Electric Utilities 1970-74

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8354	0.97	21172	0.97	5615	0.97	12823	1.00
ALL CANCER, EXCL LEUK	179208	0.99	471890	1.02	139175	0.99	317206	1.02
HODGKIN'S DISEASE	2047	0.98	5734	1.07	845	1.05	1810	1.01
OTHER LYMPHOMA	5423	1.06	12577	0.97	4659	1.04	10145	1.02
MULTIPLE MYELOMA	1986	0.96	5235	1.01	2242	1.00	4910	1.00
DIGESTIVE ORGANS	61311	0.98	167765	1.04	39639	1.01	89792	1.04
STOMACH	12029	0.92	36271	1.06	5154	0.99	12276	1.08
COLON & RECTUM	28613	1.03	76150	1.07	19825	1.03	44543	1.05
LIVER (PRIMARY)	5938	0.95	16588	1.02	2003	1.00	4144	0.95
TRACHEA, BRONCHUS, LUNG	28741	0.97	72448	0.97	33625	0.95	77913	0.99
BREAST (FEMALE)	16808	1.00	44499	1.02	12997	1.03	29877	1.05
THYROID	644	0.94	1759	1.00	384	1.06	784	0.98
BONES & JOINTS	1233	0.97	3376	1.03	519	1.02	1073	0.96
BLADDER	5732	1.06	14945	1.08	3761	1.03	8476	1.08
BRAIN & OTHER C.N.S.	4360	1.00	10790	0.96	3572	0.99	8165	1.01
BENIGN & UNSPEC NEOPLASMS	572	1.03	1421	1.07	1138	1.03	2565	1.05

Table 1-C

Age at death: all

Electric Utilities 1970-74

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	0.98	1.01	1.04**
ALL CANCER, EXCL LEUK	0.98***	0.98***	1.00	1.01
HODGKIN'S OISEASE	0.95	1.07	1.08	0.95
OTHER LYMPHOMA	1.10***	1.03	0.98	1.05***
MULTIPLE MYELOMA	0.94*	1.01	1.05	0.99
OIGESTIVE ORGANS	0.98***	1.00	1.03***	1.01
STOMACH	0.89***	0.94***	1.06**	1.03**
COLON & RECTUM	1.02**	1.03**	1.02	1.00
LIVER (PRIMARY)	0.95**	1.02	1.03	0.94***
TRACHEA, BRONCHUS, LUNG	0.97***	0.93***	0.96***	1.02***
BREAST (FEMALE)	1.00	1.01	1.04**	1.03***
THYROID	0.97	1.12	1.11	1.01
BONES & JOINTS	0.98	1.09	1.06	0.95
BLADDER	0.99	0.97	0.98	1.00
BRAIN & OTHER C.N.S.	1.01	0.96	0.97	1.05**
BENIGN & UNSPEC NEOPLASMS	1.01	1.03	1.02	1.00

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-D

Age at death: under 10 Electric Utilities 1975-81

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	392	1.07	785	0.95	28	0.70	88	0.93
ALL CANCER, EXCL LEUK	411	1.01	929	1.03	63	1.02	123	0.85
HODGKIN'S DISEASE	11	1.75	12	0.86	0	0.00	0	0.00
OTHER LYMPHOMA	47	0.89	125	1.06	3	0.51	14	1.03
MULTIPLE MYELOMA	0	0.00	1	2.34	0	0.00	0	0.00
DIGESTIVE ORGANS	16	0.77	48	1.04	2	0.5	5	0.61
STOMACH	0	0.00	3	1.47	0	0.00	0	0.00
COLON & RECTUM	4	1.76	3	0.60	1	3.07	1	1.33
LIVER (PRIMARY)	10	0.80	31	1.12	1	0.38	4	0.65
TRACHEA, BRONCHUS, LUNG	4	1.16	8	1.05	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	2	1.70	0	0.00	1	1.87
THYROID	0	0.00	1	1.37	0	0.00	0	0.00
BONES & JOINTS	15	1.04	27	0.84	3	1.61	5	1.14
BLADDER	2	0.91	4	0.82	1	6.70	0	0.00
BRAIN & OTHER C.N.S.	167	1.05	363	1.02	33	1.52	39	0.77
BENIGN & UNSPEC NEOPLASMS	20	1.32	35	1.08	9	1.98	3	0.28

Table 1-D

Age at death: under 10 — Electric Utilities 1975-81

Disease	Relative Risks: Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.11	0.82	0.64*	0.97
ALL CANCER, EXCL LEUK	0.99	1.24	1.02	0.83
HODGKIN'S DISEASE	2.07	-	-	-
OTHER LYMPHOMA	0.81	-	-	0.94
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.71	-	-	0.56
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.62	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.38	-	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.03	2.02**	1.47*	0.75
BENIGN & UNSPEC NEOPLASMS	1.24	-	1.44	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D

Age at death: 10 to 19 — Electric Utilities 1975-81

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	196	0.96	434	0.94	40	0.91	87	0.82
ALL CANCER, EXCL LEUK	369	0.93	839	0.94	82	1.01	169	0.87
HODGKIN'S DISEASE	33	0.87	65	0.76	5	0.94	12	0.95
OTHER LYMPHOMA	56	0.98	110	0.85	7	0.62	25	0.92
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	14	0.68	57	1.23	8	1.89	8	0.79
STOMACH	0	0.00	3	0.88	1	4.56	0	0.00
COLON & RECTUM	7	0.86	21	1.16	1	0.73	3	0.92
LIVER (PRIMARY)	6	0.85	22	1.40	6	3.13	4	0.88
TRACHEA, BRONCHUS, LUNG	3	0.67	12	1.19	0	0.00	1	0.58
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	1	0.97	2	0.86	0	0.00	1	2.74
BONES & JOINTS	75	1.03	156	0.95	13	0.91	33	0.96
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	91	0.93	220	1.00	20	0.98	35	0.72
BENIGN & UNSPEC NEOPLASMS	9	0.73	25	0.91	1	0.38	2	0.31

Table 1-D

Age at death: 10 to 19 — Electric Utilities 1975-81

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.01	1.06	0.92	0.89
ALL CANCER, EXCL LEUK	0.99	1.23	1.13	0.93
HODGKIN'S DISEASE	1.15	-	-	1.19
OTHER LYMPHOMA	1.14	0.77	0.64	1.12
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.53*	-	-	0.65
STOMACH	-	-	-	-
COLON & RECTUM	0.68	-	-	-
LIVER (PRIMARY)	0.59	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.07	1.03	0.99	1.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.94	1.43	1.14	0.72
BENIGN & UNSPEC NEOPLASMS	0.77	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D

Age at death: 20 to 39 — Electric Utilities 1975-81

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	312	0.98	621	0.87	81	0.84	228	1.00
ALL CANCER, EXCL LEUK	2736	0.98	5889	0.95	751	1.04	1673	0.97
HODGKIN'S DISEASE	216	0.92	503	0.94	45	1.02	104	1.00
OTHER LYMPHOMA	141	0.90	299	0.85	61	1.22	98	0.83
MULTIPLE MYELOMA	11	0.87	26	0.94	6	1.81	10	1.25
DIGESTIVE ORGANS	421	0.90	993	0.96	106	0.99	235	0.92
STOMACH	83	0.86	215	1.02	16	0.89	38	0.88
COLON & RECTUM	201	0.90	470	0.95	49	0.97	108	0.89
LIVER (PRIMARY)	45	0.90	100	0.91	9	0.72	37	1.23
TRACHEA, BRONCHUS, LUNG	210	0.92	485	0.97	77	1.16	153	0.96
BREAST (FEMALE)	358	0.91	768	0.90	104	0.91	293	1.07
THYROID	4	0.45	15	0.77	0	0.00	5	1.19
BONES & JOINTS	63	1.21	122	1.02	16	1.06	30	0.85
BLADDER	15	1.27	33	1.28	3	1.32	5	0.92
BRAIN & OTHER C.N.S.	221	0.92	480	0.90	66	0.97	142	0.88
BENIGN & UNSPEC NEOPLASMS	29	0.91	77	1.10	7	0.65	22	0.86

Table 1-D

Age at death: 20 to 39 — Electric Utilities 1975-81

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.13	0.88	0.87	1.15
ALL CANCER, EXCL LEUK	1.04	1.12*	1.11*	1.02
HODGKIN'S DISEASE	0.98	1.11	1.10	1.03
OTHER LYMPHOMA	1.08	1.54*	1.32	0.96
MULTIPLE MYELOMA	0.84	-	-	1.27
DIGESTIVE ORGANS	0.95	1.16	1.12	0.97
STOMACH	0.86	1.09	1.10	0.85
COLON & RECTUM	0.94	1.20	1.04	0.99
LIVER (PRIMARY)	1.02	0.62	0.96	1.34
TRACHEA, BRONCHUS, LUNG	1.00	1.36*	1.29	1.00
BREAST (FEMALE)	1.03	0.89	1.11	1.21**
THYROID	-	-	-	-
BONES & JOINTS	1.18	1.18	0.97	0.77
BLADDER	1.03	-	-	0.68
BRAIN & OTHER C.N.S.	1.04	1.14	1.06	1.02
BENIGN & UNSPEC NEOPLASMS	0.81	0.82	0.57	0.80

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D

Age at death: 40 to 59 Electric Utilities 1975-81

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	678	0.99	1443	0.96	190	1.07	424	0.95
ALL CANCER, EXCL LEUK	20179	0.97	44156	0.97	5816	0.98	14933	1.01
HODGKIN'S DISEASE	249	1.01	513	0.93	29	0.87	89	1.06
OTHER LYMPHOMA	548	0.91	1220	0.91	178	0.99	428	0.95
MULTIPLE MYELOMA	257	1.05	521	0.97	80	1.04	199	1.04
DIGESTIVE ORGANS	4990	0.92	10739	0.90	1222	0.96	3163	1.00
STOMACH	900	0.88	1829	0.82	136	0.81	405	0.98
COLON & RECTUM	2065	0.92	4467	0.90	527	0.95	1421	1.03
LIVER (PRIMARY)	462	0.92	1037	0.94	67	0.89	167	0.90
TRACHEA, BRONCHUS, LUNG	4496	1.00	9994	1.01	1874	1.02	4805	1.05
BREAST (FEMALE)	2608	0.92	5826	0.93	762	0.96	1949	0.98
THYROID	57	0.92	130	0.95	11	0.94	21	0.72
BONES & JOINTS	112	1.04	260	1.10	16	1.10	34	0.93
BLADDER	344	1.14	674	1.02	71	1.18	153	1.01
BRAIN & OTHER C.N.S.	756	1.05	1661	1.04	198	0.99	498	1.00
BENIGN & UNSPEC NEOPLASMS	100	0.96	274	1.19	27	0.86	77	0.97

Table 1-D

Age at death: 40 to 59 — Electric Utilities 1975-81

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.03	1.11	1.08	1.02
ALL CANCER, EXCL LEUK	1.03**	0.99	1.02	1.04***
HODGKIN'S DISEASE	1.10	0.85	0.85	1.09
OTHER LYMPHOMA	1.01	1.03	1.05	1.06
MULTIPLE MYELOMA	1.07	0.99	1.01	1.11
DIGESTIVE ORGANS	1.05**	0.99	1.04	1.08***
STOMACH	1.10*	0.83	0.91	1.14*
COLON & RECTUM	1.06*	0.96	1.04	1.11***
LIVER (PRIMARY)	1.01	1.06	0.99	0.93
TRACHEA, BRONCHUS, LUNG	1.02	1.02	1.05	1.05**
BREAST (FEMALE)	1.00	0.98	1.04	1.06*
THYROID	0.98	1.40	0.97	0.76
BONES & JOINTS	0.97	1.19	1.10	0.89
BLADDER	1.16*	1.20	1.05	0.97
BRAIN & OTHER C.N.S.	1.02	0.99	0.98	0.98
BENIGN & UNSPEC NEOPLASMS	0.82	0.94	0.84	0.81

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-D

Age at death: 60 plus — Electric Utilities 1975-81

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1729	0.97	3880	0.94	667	0.91	1793	0.96
ALL CANCER, EXCL LEUK	45615	0.95	106071	0.95	19613	0.98	51887	1.01
HODGKIN'S DISEASE	259	0.99	632	1.04	67	1.13	149	0.97
OTHER LYMPHOMA	1228	1.03	2587	0.93	583	0.94	1463	0.92
MULTIPLE MYELOMA	668	1.00	1480	0.97	356	0.98	914	0.99
DIGESTIVE ORGANS	15877	0.89	37232	0.91	5585	0.94	14876	0.98
STOMACH	3123	0.87	6999	0.84	697	0.91	1705	0.87
COLON & RECTUM	7158	0.89	17083	0.92	2813	0.96	7584	1.01
LIVER (PRIMARY)	1398	0.89	3385	0.94	252	0.85	694	0.92
TRACHEA, BRONCHUS, LUNG	8445	1.00	19264	0.99	5337	1.03	14203	1.06
BREAST (FEMALE)	3182	0.88	7587	0.91	1434	0.95	3738	0.97
THYROID	145	0.81	404	0.97	40	0.79	124	0.96
BONES & JOINTS	207	0.89	553	1.02	29	0.72	98	0.94
BLADDER	1628	0.97	3836	0.99	606	1.05	1552	1.04
BRAIN & OTHER C.N.S.	642	1.01	1439	0.98	358	0.93	1017	1.02
BENIGN & UNSPEC NEOPLASMS	219	1.02	474	0.94	81	0.77	240	0.89

Table 1-D

Age at death: 60 plus

Electric Utilities 1975-81

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.01	0.96	0.96	1.04
ALL CANCER, EXCL LEUK	1.01	0.98*	1.04***	1.06***
HODGKIN'S DISEASE	0.93	1.12	1.21	0.99
OTHER LYMPHOMA	1.08*	1.00	0.94	1.03
MULTIPLE MYELOMA	1.00	0.97	1.00	1.07
DIGESTIVE ORGANS	1.02	0.98	1.04**	1.06***
STOMACH	1.07**	1.07	1.02	0.99
COLON & RECTUM	1.01	0.98	1.07**	1.07***
LIVER (PRIMARY)	0.97	0.97	0.95	0.97
TRACHEA, BRONCHUS, LUNG	1.05***	0.99	1.04*	1.08***
BREAST (FEMALE)	0.97	0.99	1.07*	1.06**
THYROID	0.85	0.79	0.98	0.96
BONES & JOINTS	0.87	0.79	0.90	0.93
BLADDER	1.04	1.04	1.04	1.02
BRAIN & OTHER C.N.S.	1.01	0.90	0.98	1.08
BENIGN & UNSPEC NEOPLASMS	1.08	0.89	0.78	0.91

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-D

Age at death: all

Electric Utilities 1975-81

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3307	0.99	7163	0.94	1006	0.92	2620	0.95
ALL CANCER, EXCL LEUK	69310	0.96	157884	0.96	26325	0.98	68785	1.01
HODGKIN'S DISEASE	768	0.97	1725	0.96	146	1.02	354	1.00
OTHER LYMPHOMA	2020	0.98	4341	0.92	832	0.96	2028	0.92
MULTIPLE MYELOMA	936	1.01	2028	0.97	442	1.00	1123	1.00
DIGESTIVE ORGANS	21318	0.90	49069	0.91	6923	0.94	18287	0.98
STOMACH	4106	0.87	9049	0.84	850	0.89	2148	0.89
COLON & RECTUM	9435	0.90	22044	0.92	3391	0.96	9117	1.01
LIVER (PRIMARY)	1921	0.90	4575	0.94	335	0.86	906	0.92
TRACHEA, BRONCHUS, LUNG	13158	1.00	29763	0.99	7288	1.03	19162	1.06
BREAST (FEMALE)	6148	0.90	14183	0.92	2300	0.95	5981	0.98
THYROID	207	0.82	552	0.96	51	0.79	151	0.92
BONES & JOINTS	472	0.98	1118	1.02	77	0.89	200	0.93
BLADDER	1989	1.00	4547	0.99	681	1.06	1710	1.04
BRAIN & OTHER C.N.S.	1877	1.01	4163	0.99	675	0.97	1731	0.99
BENIGN & UNSPEC NEOPLASMS	377	1.00	885	1.03	125	0.81	344	0.87

Table 1-D

Age at death: all

Electric Utilities 1975-81

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.04	0.98	0.95	1.04
ALL CANCER, EXCL LEUK	1.02***	0.99	1.04***	1.05***
HODGKIN'S DISEASE	1.01	1.06	1.07	1.03
OTHER LYMPHOMA	1.05	1.02	0.98	1.03
MULTIPLE MYELOMA	1.01	0.98	1.01	1.08
DIGESTIVE ORGANS	1.02*	0.99	1.04**	1.06***
STOMACH	1.07***	1.02	1.00	1.02
COLON & RECTUM	1.02	0.98	1.07**	1.07***
LIVER (PRIMARY)	0.97	0.98	0.96	0.97
TRACHEA, BRONCHUS, LUNG	1.04***	1.00	1.05**	1.07***
BREAST (FEMALE)	0.99	0.98	1.06*	1.07***
THYROID	0.87	0.84	0.96	0.94
BONES & JOINTS	0.97	0.98	0.98	0.92
BLADDER	1.06*	1.06	1.05	1.02
BRAIN & OTHER C.N.S.	1.02	0.98	1.02	1.01
BENIGN & UNSPEC NEOPLASMS	0.97	0.96	0.80*	0.84*

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.1

Age at death: under 10

Hanford (1943)
Benton, WA ; Franklin, WA ; Grant, WA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	45	1.27	147	1.10
ALL CANCER, EXCL LEUK	-	-	-	-	40	1.03	167	1.14
HODGKIN'S DISEASE	-	-	-	-	0	0.00	2	1.02
OTHER LYMPHOMA	-	-	-	-	11	2.22	24	1.28
MULTIPLE MYELOMA	-	-	-	-	0	0.00	0	0.00
DIGESTIVE ORGANS	-	-	-	-	1	0.50	5	0.66
STOMACH	-	-	-	-	0	0.00	0	0.00
COLON & RECTUM	-	-	-	-	0	0.00	0	0.00
LIVER (PRIMARY)	-	-	-	-	1	0.77	4	0.83
TRACHEA, BRONCHUS, LUNG	-	-	-	-	2	5.75	0	0.00
BREAST (FEMALE)	-	-	-	-	0	0.00	0	0.00
THYROID	-	-	-	-	0	0.00	0	0.00
BONES & JOINTS	-	-	-	-	3	2.16	7	1.33
BLADDER	-	-	-	-	1	5.14	1	1.36
BRAIN & OTHER C.N.S.	-	-	-	-	10	0.66	70	1.22
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	0	0.00	4	0.71

Table 1-A.1

Age at death: under 10

Hanford (1943)
Benton, WA ; Franklin, WA ; Grant, WA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.15	-	-
ALL CANCER, EXCL LEUK	-	0.90	-	-
HODGKIN'S DISEASE	-	0.00	-	-
OTHER LYMPHOMA	-	1.73	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	0.76	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	0.93	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	1.62	-	-
BLADDER	-	3.78	-	-
BRAIN & OTHER C.N.S.	-	0.54	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.1

Age at death: 10 to 19

Hanford (1943)
Benton, WA ; Franklin, WA ; Grant, WA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	18	0.94	74	0.93
ALL CANCER, EXCL LEUK	-	-	-	-	41	1.16	145	0.98
HODGKIN'S DISEASE	-	-	-	-	1	0.31	8	0.58
OTHER LYMPHOMA	-	-	-	-	4	0.77	23	1.06
MULTIPLE MYELOMA	-	-	-	-	1	43.94	0	0.00
DIGESTIVE ORGANS	-	-	-	-	0	0.00	5	0.73
STOMACH	-	-	-	-	0	0.00	0	0.00
COLON & RECTUM	-	-	-	-	0	0.00	2	0.82
LIVER (PRIMARY)	-	-	-	-	0	0.00	1	0.39
TRACHEA, BRONCHUS, LUNG	-	-	-	-	0	0.00	0	0.00
BREAST (FEMALE)	-	-	-	-	0	0.00	0	0.00
THYROID	-	-	-	-	0	0.00	0	0.00
BONES & JOINTS	-	-	-	-	10	1.53	31	1.13
BLADDER	-	-	-	-	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	-	-	-	-	12	1.33	40	1.07
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	2	1.94	3	0.70

Table 1-A.1

Age at death: 10 to 19

Hanford (1943)
Benton, WA ; Franklin, WA ; Grant, WA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.01	-	-
ALL CANCER, EXCL LEUK	-	1.18	-	-
HODGKIN'S DISEASE	-	0.53	-	-
OTHER LYMPHOMA	-	0.73	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	0.00	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	0.00	-	-
LIVER (PRIMARY)	-	0.00	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	1.35	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	1.24	-	-
BENIGN & UNSPEC NEOPLASMS	-	2.77	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.1

Age at death: 20 to 39

Hanford (1943)

Benton, WA ; Franklin, WA ; Grant, WA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	29	0.98	111	0.93
ALL CANCER, EXCL LEUK	-	-	-	-	183	0.74	959	0.98
HODGKIN'S DISEASE	-	-	-	-	19	0.92	94	1.13
OTHER LYMPHOMA	-	-	-	-	11	0.73	54	0.90
MULTIPLE MYELOMA	-	-	-	-	1	0.94	3	0.73
DIGESTIVE ORGANS	-	-	-	-	40	1.01	133	0.86
STOMACH	-	-	-	-	9	1.19	22	0.76
COLON & RECTUM	-	-	-	-	21	1.08	62	0.82
LIVER (PRIMARY)	-	-	-	-	0	0.00	13	0.85
TRACHEA, BRONCHUS, LUNG	-	-	-	-	6	0.29	71	0.87
BREAST (FEMALE)	-	-	-	-	23	0.66	129	0.94
THYROID	-	-	-	-	1	1.33	2	0.67
BONES & JOINTS	-	-	-	-	6	1.29	19	0.99
BLADDER	-	-	-	-	1	1.05	3	0.82
BRAIN & OTHER C.N.S.	-	-	-	-	22	0.95	99	1.08
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	2	0.78	7	0.63

Table 1-A.1

Age at death: 20 to 39

Hanford (1943)
Benton, WA ; Franklin, WA ; Grant, WA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.05	-	-
ALL CANCER, EXCL LEUK	-	0.76***	-	-
HODGKIN'S DISEASE	-	0.81	-	-
OTHER LYMPHOMA	-	0.81	-	-
MULTIPLE MYELOMA	-	1.29	-	-
DIGESTIVE ORGANS	-	1.17	-	-
STOMACH	-	1.57	-	-
COLON & RECTUM	-	1.32	-	-
LIVER (PRIMARY)	-	0.00	-	-
TRACHEA, BRONCHUS, LUNG	-	0.33**	-	-
BREAST (FEMALE)	-	0.70	-	-
THYROID	-	1.99	-	-
BONES & JOINTS	-	1.30	-	-
BLADDER	-	1.28	-	-
BRAIN & OTHER C.N.S.	-	0.88	-	-
BENIGN & UNSPEC NEOPLASMS	-	1.24	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.1

Age at death: 40 to 59

Hanford (1943)

Benton, WA ; Franklin, WA ; Grant, WA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	41	0.67	245	0.94
ALL CANCER, EXCL LEUK	-	-	-	-	1498	0.83	6805	0.89
HODGKIN'S DISEASE	-	-	-	-	18	0.87	71	0.81
OTHER LYMPHOMA	-	-	-	-	62	1.08	249	1.03
MULTIPLE MYELOMA	-	-	-	-	21	1.02	93	1.07
DIGESTIVE ORGANS	-	-	-	-	360	0.82	1643	0.86
STOMACH	-	-	-	-	55	0.74	300	0.93
COLON & RECTUM	-	-	-	-	141	0.73	677	0.81
LIVER (PRIMARY)	-	-	-	-	33	0.92	131	0.81
TRACHEA, BRONCHUS, LUNG	-	-	-	-	349	0.77	1626	0.88
BREAST (FEMALE)	-	-	-	-	206	0.86	977	0.93
THYROID	-	-	-	-	3	0.61	22	1.01
BONES & JOINTS	-	-	-	-	9	1.09	24	0.66
BLADDER	-	-	-	-	15	0.62	94	0.89
BRAIN & OTHER C.N.S.	-	-	-	-	68	0.99	318	1.10
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	7	0.78	38	1.05

Table 1-A.1

Age at death: 40 to 59

Hanford (1943)
Benton, WA ; Franklin, WA ; Grant, WA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	0.71*	-	-
ALL CANCER, EXCL LEUK	-	0.93*	-	-
HODGKIN'S DISEASE	-	1.07	-	-
OTHER LYMPHOMA	-	1.05	-	-
MULTIPLE MYELOMA	-	0.95	-	-
DIGESTIVE ORGANS	-	0.95	-	-
STOMACH	-	0.80	-	-
COLON & RECTUM	-	0.90	-	-
LIVER (PRIMARY)	-	1.14	-	-
TRACHEA, BRONCHUS, LUNG	-	0.88*	-	-
BREAST (FEMALE)	-	0.92	-	-
THYROID	-	0.60	-	-
BONES & JOINTS	-	1.65	-	-
BLADDER	-	0.70	-	-
BRAIN & OTHER C.N.S.	-	0.90	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.74	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.1

Age at death: 60 plus

Hanford (1943)
Benton, WA ; Franklin, WA ; Grant, WA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	139	1.00	882	0.98
ALL CANCER, EXCL LEUK	-	-	-	-	3377	0.92	21709	0.94
HODGKIN'S DISEASE	-	-	-	-	9	0.50	109	0.94
OTHER LYMPHOMA	-	-	-	-	91	0.88	601	0.95
MULTIPLE MYELOMA	-	-	-	-	57	1.05	333	1.03
DIGESTIVE ORGANS	-	-	-	-	1066	0.86	7424	0.91
STOMACH	-	-	-	-	182	0.85	1394	0.93
COLON & RECTUM	-	-	-	-	482	0.83	3302	0.86
LIVER (PRIMARY)	-	-	-	-	74	0.81	535	0.83
TRACHEA, BRONCHUS, LUNG	-	-	-	-	818	0.99	4511	0.98
BREAST (FEMALE)	-	-	-	-	226	0.90	1519	0.93
THYROID	-	-	-	-	16	1.39	77	0.98
BONES & JOINTS	-	-	-	-	16	1.12	73	0.74
BLADDER	-	-	-	-	104	0.85	775	0.94
BRAIN & OTHER C.N.S.	-	-	-	-	61	0.98	354	1.02
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	15	0.85	85	0.84

Table 1-A.1

Age at death: 60 plus

Hanford (1943)
Benton, WA ; Franklin, WA ; Grant, WA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.02	-	-
ALL CANCER, EXCL LEUK	-	0.98	-	-
HODGKIN'S DISEASE	-	0.53	-	-
OTHER LYMPHOMA	-	0.93	-	-
MULTIPLE MYELOMA	-	1.02	-	-
DIGESTIVE ORGANS	-	0.95	-	-
STOMACH	-	0.91	-	-
COLON & RECTUM	-	0.97	-	-
LIVER (PRIMARY)	-	0.98	-	-
TRACHEA, BRONCHUS, LUNG	-	1.01	-	-
BREAST (FEMALE)	-	0.97	-	-
THYROID	-	1.42	-	-
BONES & JOINTS	-	1.51	-	-
BLADDER	-	0.90	-	-
BRAIN & OTHER C.N.S.	-	0.96	-	-
BENIGN & UNSPEC NEOPLASMS	-	1.01	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.1

Age at death: all

Hanford (1943)
Benton, WA ; Franklin, WA ; Grant, WA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	272	0.96	1459	0.98
ALL CANCER, EXCL LEUK	-	-	-	-	5139	0.89	29785	0.93
HODGKIN'S DISEASE	-	-	-	-	47	0.75	284	0.94
OTHER LYMPHOMA	-	-	-	-	179	0.96	951	0.98
MULTIPLE MYELOMA	-	-	-	-	80	1.06	429	1.03
DIGESTIVE ORGANS	-	-	-	-	1467	0.85	9210	0.90
STOMACH	-	-	-	-	246	0.83	1716	0.92
COLON & RECTUM	-	-	-	-	644	0.81	4043	0.85
LIVER (PRIMARY)	-	-	-	-	108	0.81	684	0.82
TRACHEA, BRONCHUS, LUNG	-	-	-	-	1175	0.91	6208	0.95
BREAST (FEMALE)	-	-	-	-	455	0.86	2625	0.93
THYROID	-	-	-	-	20	1.15	101	0.98
BONES & JOINTS	-	-	-	-	44	1.25	154	0.83
BLADDER	-	-	-	-	121	0.81	873	0.94
BRAIN & OTHER C.N.S.	-	-	-	-	173	0.97	881	1.07
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	26	0.82	137	0.87

Table 1-A.1

Age at death: all

Hanford (1943)
Benton, WA ; Franklin, WA ; Grant, WA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	0.98	-	-
ALL CANCER, EXCL LEUK	-	0.96**	-	-
HODGKIN'S DISEASE	-	0.80	-	-
OTHER LYMPHOMA	-	0.98	-	-
MULTIPLE MYELOMA	-	1.03	-	-
DIGESTIVE ORGANS	-	0.94	-	-
STOMACH	-	0.90	-	-
COLON & RECTUM	-	0.95	-	-
LIVER (PRIMARY)	-	0.99	-	-
TRACHEA, BRONCHUS, LUNG	-	0.96	-	-
BREAST (FEMALE)	-	0.92	-	-
THYROID	-	1.17	-	-
BONES & JOINTS	-	1.51*	-	-
BLADDER	-	0.86	-	-
BRAIN & OTHER C.N.S.	-	0.91	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.94	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.2

Age at death: under 10

Oak Ridge (1943)
Anderson, TN ; Roane, TN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	33	1.34	49	0.91
ALL CANCER, EXCL LEUK	-	-	-	-	24	0.90	50	0.84
HODGKIN'S DISEASE	-	-	-	-	0	0.00	0	0.00
OTHER LYMPHOMA	-	-	-	-	4	1.15	7	0.92
MULTIPLE MYELOMA	-	-	-	-	1	80.91	0	0.00
DIGESTIVE ORGANS	-	-	-	-	0	0.00	4	1.31
STOMACH	-	-	-	-	0	0.00	0	0.00
COLON & RECTUM	-	-	-	-	0	0.00	0	0.00
LIVER (PRIMARY)	-	-	-	-	0	0.00	4	2.07
TRACHEA, BRONCHUS, LUNG	-	-	-	-	0	0.00	0	0.00
BREAST (FEMALE)	-	-	-	-	1	24.15	0	0.00
THYROID	-	-	-	-	0	0.00	0	0.00
BONES & JOINTS	-	-	-	-	1	1.03	1	0.47
BLADDER	-	-	-	-	1	7.07	0	0.00
BRAIN & OTHER C.N.S.	-	-	-	-	7	0.67	23	0.99
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	1	1.20	7	2.97

Table 1-A.2

Age at death: under 10

Oak Ridge (1943)
Anderson, TN ; Roane, TN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.47	-	-
ALL CANCER, EXCL LEUK	-	1.07	-	-
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	-	1.25	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	0.00	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	0.00	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	2.19	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	0.68	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.40	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.2

Age at death: 10 to 19

Oak Ridge (1943)
Anderson, TN ; Roane, TN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	15	1.07	35	1.05
ALL CANCER, EXCL LEUK	-	-	-	-	25	0.96	58	0.93
HODGKIN'S DISEASE	-	-	-	-	2	0.82	2	0.34
OTHER LYMPHOMA	-	-	-	-	2	0.52	12	1.32
MULTIPLE MYELOMA	-	-	-	-	0	0.00	0	0.00
DIGESTIVE ORGANS	-	-	-	-	2	1.63	3	1.00
STOMACH	-	-	-	-	1	12.52	0	0.00
COLON & RECTUM	-	-	-	-	0	0.00	2	1.83
LIVER (PRIMARY)	-	-	-	-	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	-	-	-	-	0	0.00	1	1.47
BREAST (FEMALE)	-	-	-	-	0	0.00	0	0.00
THYROID	-	-	-	-	0	0.00	0	0.00
BONES & JOINTS	-	-	-	-	5	1.04	10	0.87
BLADDER	-	-	-	-	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	-	-	-	-	10	1.51	16	1.02
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	1	1.51	0	0.00

Table 1-A.2

Age at death: 10 to 19

Oak Ridge (1943)
Anderson, TN ; Roane, TN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.02	-	-
ALL CANCER, EXCL LEUK	-	1.03	-	-
HODGKIN'S DISEASE	-	2.41	-	-
OTHER LYMPHOMA	-	0.39	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	1.63	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	0.00	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	0.00	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	1.20	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	1.48	-	-
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.2

Age at death: 20 to 39

Oak Ridge (1943)
Anderson, TN ; Roane, TN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	20	0.96	53	1.04
ALL CANCER, EXCL LEUK	-	-	-	-	185	1.03	481	1.12
HODGKIN'S DISEASE	-	-	-	-	8	0.54	30	0.83
OTHER LYMPHOMA	-	-	-	-	10	0.95	16	0.62
MULTIPLE MYELOMA	-	-	-	-	4	5.20	1	0.55
DIGESTIVE ORGANS	-	-	-	-	32	1.10	83	1.23
STOMACH	-	-	-	-	5	0.88	12	0.94
COLON & RECTUM	-	-	-	-	17	1.18	44	1.32
LIVER (PRIMARY)	-	-	-	-	3	1.04	10	1.48
TRACHEA, BRONCHUS, LUNG	-	-	-	-	10	0.68	41	1.15
BREAST (FEMALE)	-	-	-	-	29	1.09	45	0.72
THYROID	-	-	-	-	0	0.00	1	0.77
BONES & JOINTS	-	-	-	-	6	1.86	19	2.32
BLADDER	-	-	-	-	0	0.00	1	0.61
BRAIN & OTHER C.N.S.	-	-	-	-	17	1.04	56	1.42
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	3	1.78	6	1.22

Table 1-A.2

Age at death: 20 to 39

Oak Ridge (1943)
Anderson, TN ; Roane, TN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	0.92	-	-
ALL CANCER, EXCL LEUK	-	0.92	-	-
HODGKIN'S DISEASE	-	0.65	-	-
OTHER LYMPHOMA	-	1.53	-	-
MULTIPLE MYELOMA	-	9.45	-	-
DIGESTIVE ORGANS	-	0.89	-	-
STOMACH	-	0.94	-	-
COLON & RECTUM	-	0.89	-	-
LIVER (PRIMARY)	-	0.70	-	-
TRACHEA, BRONCHUS, LUNG	-	0.59	-	-
BREAST (FEMALE)	-	1.51	-	-
THYROID	-	0.00	-	-
BONES & JOINTS	-	0.80	-	-
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	-	0.73	-	-
BENIGN & UNSPEC NEOPLASMS	-	1.46	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.2

Age at death: 40 to 59

Oak Ridge (1943)
Anderson, TN ; Roane, TN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	54	1.15	114	1.04
ALL CANCER, EXCL LEUK	-	-	-	-	1351	0.97	3044	0.93
HODGKIN'S DISEASE	-	-	-	-	15	0.95	34	0.94
OTHER LYMPHOMA	-	-	-	-	44	1.01	90	0.88
MULTIPLE MYELOMA	-	-	-	-	20	1.27	39	1.04
DIGESTIVE ORGANS	-	-	-	-	291	0.86	670	0.83
STOMACH	-	-	-	-	51	0.89	107	0.79
COLON & RECTUM	-	-	-	-	120	0.80	234	0.66
LIVER (PRIMARY)	-	-	-	-	19	0.67	73	1.09
TRACHEA, BRONCHUS, LUNG	-	-	-	-	392	1.18	767	0.97
BREAST (FEMALE)	-	-	-	-	179	0.91	357	0.77
THYROID	-	-	-	-	3	0.78	14	1.53
BONES & JOINTS	-	-	-	-	8	1.25	15	1.01
BLADDER	-	-	-	-	13	0.71	33	0.76
BRAIN & OTHER C.N.S.	-	-	-	-	54	1.03	149	1.22
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	9	1.31	10	0.61

Table 1-A.2

Age at death: 40 to 59

Oak Ridge (1943)
Anderson, TN ; Roane, TN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.11	-	-
ALL CANCER, EXCL LEUK	-	1.04	-	-
HODGKIN'S DISEASE	-	1.01	-	-
OTHER LYMPHOMA	-	1.15	-	-
MULTIPLE MYELOMA	-	1.22	-	-
DIGESTIVE ORGANS	-	1.04	-	-
STOMACH	-	1.13	-	-
COLON & RECTUM	-	1.21	-	-
LIVER (PRIMARY)	-	0.61	-	-
TRACHEA, BRONCHUS, LUNG	-	1.22**	-	-
BREAST (FEMALE)	-	1.18	-	-
THYROID	-	0.51	-	-
BONES & JOINTS	-	1.24	-	-
BLADDER	-	0.93	-	-
BRAIN & OTHER C.N.S.	-	0.84	-	-
BENIGN & UNSPEC NEOPLASMS	-	2.15	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.2

Age at death: 60 plus

Oak Ridge (1943)
Anderson, TN ; Roane, TN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	108	0.90	347	0.97
ALL CANCER, EXCL LEUK	-	-	-	-	2875	0.90	8024	0.85
HODGKIN'S DISEASE	-	-	-	-	13	0.84	33	0.73
OTHER LYMPHOMA	-	-	-	-	79	0.89	279	1.07
MULTIPLE MYELOMA	-	-	-	-	48	1.03	152	1.10
DIGESTIVE ORGANS	-	-	-	-	858	0.79	2594	0.80
STOMACH	-	-	-	-	132	0.69	421	0.73
COLON & RECTUM	-	-	-	-	372	0.73	1095	0.72
LIVER (PRIMARY)	-	-	-	-	75	0.91	220	0.89
TRACHEA, BRONCHUS, LUNG	-	-	-	-	694	1.04	1599	0.83
BREAST (FEMALE)	-	-	-	-	182	0.75	562	0.79
THYROID	-	-	-	-	10	0.95	28	0.89
BONES & JOINTS	-	-	-	-	9	0.71	47	1.26
BLADDER	-	-	-	-	101	0.96	246	0.78
BRAIN & OTHER C.N.S.	-	-	-	-	44	0.84	153	1.03
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	15	0.99	39	0.88

Table 1-A.2

Age at death: 60 plus

Oak Ridge (1943)
Anderson, TN ; Roane, TN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	0.93	-	-
ALL CANCER, EXCL LEUK	-	1.06**	-	-
HODGKIN'S DISEASE	-	1.15	-	-
OTHER LYMPHOMA	-	0.83	-	-
MULTIPLE MYELOMA	-	0.94	-	-
DIGESTIVE ORGANS	-	0.99	-	-
STOMACH	-	0.95	-	-
COLON & RECTUM	-	1.01	-	-
LIVER (PRIMARY)	-	1.02	-	-
TRACHEA, BRONCHUS, LUNG	-	1.25***	-	-
BREAST (FEMALE)	-	0.95	-	-
THYROID	-	1.07	-	-
BONES & JOINTS	-	0.56	-	-
BLADDER	-	1.23	-	-
BRAIN & OTHER C.N.S.	-	0.82	-	-
BENIGN & UNSPEC NEOPLASMS	-	1.13	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.2

Age at death: all

Oak Ridge (1943)
Anderson, TN ; Roane, TN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	230	1.02	598	0.99
ALL CANCER, EXCL LEUK	-	-	-	-	4460	0.93	11657	0.88
HODGKIN'S DISEASE	-	-	-	-	38	0.78	99	0.80
OTHER LYMPHOMA	-	-	-	-	139	0.92	404	1.00
MULTIPLE MYELOMA	-	-	-	-	73	1.16	192	1.08
DIGESTIVE ORGANS	-	-	-	-	1183	0.81	3354	0.81
STOMACH	-	-	-	-	189	0.75	540	0.75
COLON & RECTUM	-	-	-	-	509	0.75	1375	0.72
LIVER (PRIMARY)	-	-	-	-	97	0.84	307	0.95
TRACHEA, BRONCHUS, LUNG	-	-	-	-	1096	1.08	2408	0.87
BREAST (FEMALE)	-	-	-	-	391	0.84	964	0.78
THYROID	-	-	-	-	13	0.86	43	1.02
BONES & JOINTS	-	-	-	-	29	1.03	92	1.24
BLADDER	-	-	-	-	115	0.93	280	0.77
BRAIN & OTHER C.N.S.	-	-	-	-	132	0.96	397	1.14
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	29	1.15	62	0.89

Table 1-A.2

Age at death: all

Oak Ridge (1943)
Anderson, TN ; Roane, TN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.03	-	-
ALL CANCER, EXCL LEUK	-	1.06**	-	-
HODGKIN'S DISEASE	-	0.98	-	-
OTHER LYMPHOMA	-	0.92	-	-
MULTIPLE MYELOMA	-	1.07	-	-
DIGESTIVE ORGANS	-	1.00	-	-
STOMACH	-	1.00	-	-
COLON & RECTUM	-	1.04	-	-
LIVER (PRIMARY)	-	0.88	-	-
TRACHEA, BRONCHUS, LUNG	-	1.24***	-	-
BREAST (FEMALE)	-	1.08	-	-
THYROID	-	0.84	-	-
BONES & JOINTS	-	0.83	-	-
BLADDER	-	1.21	-	-
BRAIN & OTHER C.N.S.	-	0.84	-	-
BENIGN & UNSPEC NEOPLASMS	-	1.29	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.3

Age at death: under 10

Mound (1947)

Butler, OH ; Montgomery, OH ; Warren, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	189	1.00	333	0.92
ALL CANCER, EXCL LEUK	-	-	-	-	222	1.06	457	1.14
HODGKIN'S DISEASE	-	-	-	-	1	0.35	4	0.72
OTHER LYMPHOMA	-	-	-	-	38	1.42	79	1.54
MULTIPLE MYELOMA	-	-	-	-	0	0.00	0	0.00
DIGESTIVE ORGANS	-	-	-	-	11	1.01	18	0.87
STOMACH	-	-	-	-	0	0.00	2	2.44
COLON & RECTUM	-	-	-	-	3	2.67	2	0.94
LIVER (PRIMARY)	-	-	-	-	7	1.03	9	0.70
TRACHEA, BRONCHUS, LUNG	-	-	-	-	6	3.20	3	0.85
BREAST (FEMALE)	-	-	-	-	1	3.05	1	1.62
THYROID	-	-	-	-	0	0.00	1	3.05
BONES & JOINTS	-	-	-	-	4	0.55	17	1.20
BLADDER	-	-	-	-	1	0.93	1	0.48
BRAIN & OTHER C.N.S.	-	-	-	-	73	0.89	192	1.23
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	7	0.89	14	0.97

Table 1-A.3

Age at death: under 10

Mound (1947)

Butler, OH ; Montgomery, OH ; Warren, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.09	-	-
ALL CANCER, EXCL LEUK	-	0.93	-	-
HODGKIN'S DISEASE	-	0.49	-	-
OTHER LYMPHOMA	-	0.92	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	1.16	-	-
STOMACH	-	0.00	-	-
COLON & RECTUM	-	2.84	-	-
LIVER (PRIMARY)	-	1.47	-	-
TRACHEA, BRONCHUS, LUNG	-	3.76	-	-
BREAST (FEMALE)	-	1.88	-	-
THYROID	-	0.00	-	-
BONES & JOINTS	-	0.46	-	-
BLADDER	-	1.94	-	-
BRAIN & OTHER C.N.S.	-	0.72*	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.92	-	-

* : 0.01 < P <= 0.05

** : 0.001 < P <= 0.01

*** : P <= 0.001

Table 1-A.3

Age at death: 10 to 19

Mound (1947)

Butler, OH ; Montgomery, OH ; Warren, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	103	0.98	207	1.02
ALL CANCER, EXCL LEUK	-	-	-	-	218	1.10	394	1.04
HODGKIN'S DISEASE	-	-	-	-	14	0.77	40	1.15
OTHER LYMPHOMA	-	-	-	-	33	1.15	68	1.23
MULTIPLE MYELOMA	-	-	-	-	0	0.00	0	0.00
DIGESTIVE ORGANS	-	-	-	-	12	1.23	12	0.65
STOMACH	-	-	-	-	1	1.54	1	0.83
COLON & RECTUM	-	-	-	-	5	1.39	2	0.30
LIVER (PRIMARY)	-	-	-	-	4	1.12	5	0.75
TRACHEA, BRONCHUS, LUNG	-	-	-	-	4	1.88	8	1.97
BREAST (FEMALE)	-	-	-	-	1	2.36	1	1.25
THYROID	-	-	-	-	2	4.13	1	1.08
BONES & JOINTS	-	-	-	-	36	0.99	62	0.89
BLADDER	-	-	-	-	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	-	-	-	-	58	1.17	101	1.06
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	5	0.82	10	0.90

Table 1-A.3

Age at death: 10 to 19

Mound (1947)

Butler, OH ; Montgomery, OH ; Warren, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	0.96	-	-
ALL CANCER, EXCL LEUK	-	1.06	-	-
HODGKIN'S DISEASE	-	0.67	-	-
OTHER LYMPHOMA	-	0.93	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	1.89	-	-
STOMACH	-	1.86	-	-
COLON & RECTUM	-	4.63	-	-
LIVER (PRIMARY)	-	1.49	-	-
TRACHEA, BRONCHUS, LUNG	-	0.95	-	-
BREAST (FEMALE)	-	1.89	-	-
THYROID	-	3.82	-	-
BONES & JOINTS	-	1.11	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	1.10	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.91	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.3

Age at death: 20 to 39

Mound (1947)

Butler, OH ; Montgomery, OH ; Warren, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	171	0.97	346	1.09
ALL CANCER, EXCL LEUK	-	-	-	-	1568	1.05	2828	1.04
HODGKIN'S DISEASE	-	-	-	-	129	1.04	280	1.23
OTHER LYMPHOMA	-	-	-	-	109	1.24	184	1.15
MULTIPLE MYELOMA	-	-	-	-	6	0.91	6	0.50
DIGESTIVE ORGANS	-	-	-	-	248	1.02	442	0.99
STOMACH	-	-	-	-	42	0.87	66	0.75
COLON & RECTUM	-	-	-	-	110	0.94	262	1.21
LIVER (PRIMARY)	-	-	-	-	38	1.48	41	0.90
TRACHEA, BRONCHUS, LUNG	-	-	-	-	135	1.10	254	1.14
BREAST (FEMALE)	-	-	-	-	226	1.06	371	0.94
THYROID	-	-	-	-	4	0.87	10	1.18
BONES & JOINTS	-	-	-	-	35	1.22	39	0.77
BLADDER	-	-	-	-	5	0.85	15	1.38
BRAIN & OTHER C.N.S.	-	-	-	-	144	1.08	272	1.11
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	12	0.73	35	1.24

Table 1-A.3

Age at death: 20 to 39

Mound (1947)

Butler, OH ; Montgomery, OH ; Warren, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	0.89	-	-
ALL CANCER, EXCL LEUK	-	1.01	-	-
HODGKIN'S DISEASE	-	0.85	-	-
OTHER LYMPHOMA	-	1.08	-	-
MULTIPLE MYELOMA	-	1.82	-	-
DIGESTIVE ORGANS	-	1.03	-	-
STOMACH	-	1.16	-	-
COLON & RECTUM	-	0.78*	-	-
LIVER (PRIMARY)	-	1.64*	-	-
TRACHEA, BRONCHUS, LUNG	-	0.96	-	-
BREAST (FEMALE)	-	1.13	-	-
THYROID	-	0.74	-	-
BONES & JOINTS	-	1.58	-	-
BLADDER	-	0.62	-	-
BRAIN & OTHER C.N.S.	-	0.97	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.59	-	-

* : $0.01 < P \leq 0.05$

** : $0.001 < P \leq 0.01$

*** : $P \leq 0.001$

Table 1-A.3

Age at death: 40 to 59

Mound (1947)

Butler, OH ; Montgomery, OH ; Warren, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	389	1.06	793	1.04
ALL CANCER, EXCL LEUK	-	-	-	-	11647	1.05	23453	1.03
HODGKIN'S DISEASE	-	-	-	-	128	1.04	255	1.00
OTHER LYMPHOMA	-	-	-	-	311	0.93	731	1.06
MULTIPLE MYELOMA	-	-	-	-	153	1.16	272	1.02
DIGESTIVE ORGANS	-	-	-	-	2760	0.99	6015	1.04
STOMACH	-	-	-	-	369	0.75	1040	1.03
COLON & RECTUM	-	-	-	-	1267	1.07	2641	1.06
LIVER (PRIMARY)	-	-	-	-	250	1.03	516	1.02
TRACHEA, BRONCHUS, LUNG	-	-	-	-	3117	1.18	5674	1.06
BREAST (FEMALE)	-	-	-	-	1565	1.03	3165	1.00
THYROID	-	-	-	-	45	1.44	77	1.17
BONES & JOINTS	-	-	-	-	43	0.83	104	0.95
BLADDER	-	-	-	-	152	1.00	356	1.12
BRAIN & OTHER C.N.S.	-	-	-	-	391	0.99	836	1.01
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	50	0.91	100	0.93

Table 1-A.3

Age at death: 40 to 59

Mound (1947)
Butler, OH ; Montgomery, OH ; Warren, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.02	-	-
ALL CANCER, EXCL LEUK	-	1.02	-	-
HODGKIN'S DISEASE	-	1.04	-	-
OTHER LYMPHOMA	-	0.88	-	-
MULTIPLE MYELOMA	-	1.14	-	-
DIGESTIVE ORGANS	-	0.95*	-	-
STOMACH	-	0.73***	-	-
COLON & RECTUM	-	1.01	-	-
LIVER (PRIMARY)	-	1.01	-	-
TRACHEA, BRONCHUS, LUNG	-	1.11***	-	-
BREAST (FEMALE)	-	1.03	-	-
THYROID	-	1.23	-	-
BONES & JOINTS	-	0.87	-	-
BLADDER	-	0.89	-	-
BRAIN & OTHER C.N.S.	-	0.98	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.98	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.3

Age at death: 60 plus

Mound (1947)

Butler, OH ; Montgomery, OH ; Warren, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	948	0.97	2411	1.06
ALL CANCER, EXCL LEUK	-	-	-	-	27300	1.04	63107	1.05
HODGKIN'S DISEASE	-	-	-	-	116	0.89	291	0.96
OTHER LYMPHOMA	-	-	-	-	723	1.03	1730	1.08
MULTIPLE MYELOMA	-	-	-	-	417	1.09	927	1.08
DIGESTIVE ORGANS	-	-	-	-	9277	1.00	23025	1.07
STOMACH	-	-	-	-	1361	0.78	4147	1.03
COLON & RECTUM	-	-	-	-	4738	1.10	11013	1.11
LIVER (PRIMARY)	-	-	-	-	835	1.10	1880	1.07
TRACHEA, BRONCHUS, LUNG	-	-	-	-	5915	1.17	12079	1.05
BREAST (FEMALE)	-	-	-	-	2197	1.08	4704	1.03
THYROID	-	-	-	-	95	1.03	246	1.16
BONES & JOINTS	-	-	-	-	97	0.87	275	1.06
BLADDER	-	-	-	-	908	1.03	2281	1.10
BRAIN & OTHER C.N.S.	-	-	-	-	375	0.97	893	1.02
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	109	0.93	246	0.95

Table 1-A.3

Age at death: 60 plus

Mound (1947)

Butler, OH ; Montgomery, OH ; Warren, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	0.92*	-	-
ALL CANCER, EXCL LEUK	-	0.99	-	-
HODGKIN'S DISEASE	-	0.93	-	-
OTHER LYMPHOMA	-	0.95	-	-
MULTIPLE MYELOMA	-	1.01	-	-
DIGESTIVE ORGANS	-	0.93***	-	-
STOMACH	-	0.76***	-	-
COLON & RECTUM	-	0.99	-	-
LIVER (PRIMARY)	-	1.03	-	-
TRACHEA, BRONCHUS, LUNG	-	1.11***	-	-
BREAST (FEMALE)	-	1.05	-	-
THYROID	-	0.89	-	-
BONES & JOINTS	-	0.82	-	-
BLADDER	-	0.94	-	-
BRAIN & OTHER C.N.S.	-	0.95	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.98	-	-

* : 0.01 < P <= 0.05

** : 0.001 < P <= 0.01

*** : P <= 0.001

Table 1-A.3

Age at death: all

Mound (1947)

Butler, OH ; Montgomery, OH ; Warren, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	1800	0.99	4090	1.04
ALL CANCER, EXCL LEUK	-	-	-	-	40955	1.04	90239	1.04
HODGKIN'S DISEASE	-	-	-	-	388	0.97	870	1.05
OTHER LYMPHOMA	-	-	-	-	1214	1.03	2792	1.09
MULTIPLE MYELOMA	-	-	-	-	576	1.11	1205	1.06
DIGESTIVE ORGANS	-	-	-	-	12308	1.00	29512	1.07
STOMACH	-	-	-	-	1773	0.78	5256	1.02
COLON & RECTUM	-	-	-	-	6123	1.09	13920	1.10
LIVER (PRIMARY)	-	-	-	-	1134	1.09	2451	1.05
TRACHEA, BRONCHUS, LUNG	-	-	-	-	9177	1.17	18018	1.06
BREAST (FEMALE)	-	-	-	-	3990	1.06	8242	1.02
THYROID	-	-	-	-	146	1.13	335	1.17
BONES & JOINTS	-	-	-	-	215	0.91	497	0.99
BLADDER	-	-	-	-	1066	1.02	2653	1.11
BRAIN & OTHER C.N.S.	-	-	-	-	1041	0.99	2294	1.04
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	183	0.90	405	0.97

Table 1-A.3

Age at death: all

Mound (1947)

Butler, OH ; Montgomery, OH ; Warren, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	0.95	-	-
ALL CANCER, EXCL LEUK	-	1.00	-	-
HODGKIN'S DISEASE	-	0.92	-	-
OTHER LYMPHOMA	-	0.94	-	-
MULTIPLE MYELOMA	-	1.05	-	-
DIGESTIVE ORGANS	-	0.93***	-	-
STOMACH	-	0.76***	-	-
COLON & RECTUM	-	0.99	-	-
LIVER (PRIMARY)	-	1.04	-	-
TRACHEA, BRONCHUS, LUNG	-	1.10***	-	-
BREAST (FEMALE)	-	1.04*	-	-
THYROID	-	0.97	-	-
BONES & JOINTS	-	0.92	-	-
BLADDER	-	0.92*	-	-
BRAIN & OTHER C.N.S.	-	0.95	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.93	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.4

Age at death: under 10

Idaho Nat. Eng. Lab. (1949)
Bingham, ID ; Butte, ID ; Jefferson, ID

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	13	0.97	27	1.08
ALL CANCER, EXCL LEUK	-	-	-	-	11	0.73	25	0.91
HODGKIN'S DISEASE	-	-	-	-	0	0.00	0	0.00
OTHER LYMPHOMA	-	-	-	-	1	0.53	8	2.28
MULTIPLE MYELOMA	-	-	-	-	0	0.00	0	0.00
DIGESTIVE ORGANS	-	-	-	-	0	0.00	1	0.70
STOMACH	-	-	-	-	0	0.00	0	0.00
COLON & RECTUM	-	-	-	-	0	0.00	0	0.00
LIVER (PRIMARY)	-	-	-	-	0	0.00	1	1.10
TRACHEA, BRONCHUS, LUNG	-	-	-	-	0	0.00	0	0.00
BREAST (FEMALE)	-	-	-	-	0	0.00	0	0.00
THYROID	-	-	-	-	0	0.00	0	0.00
BONES & JOINTS	-	-	-	-	0	0.00	1	1.02
BLADDER	-	-	-	-	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	-	-	-	-	6	1.03	4	0.37
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	0	0.00	1	1.00

Table 1-A.4

Age at death: under 10

Idaho Nat. Eng. Lab. (1949)
Bingham, ID ; Butte, ID ; Jefferson, ID

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	0.90	-	-
ALL CANCER, EXCL LEUK	-	0.80	-	-
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	-	0.23	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	0.00	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	0.00	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	0.00	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	2.78	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.4

Age at death: 10 to 19

Idaho Nat. Eng. Lab. (1949)
Bingham, ID ; Butte, ID ; Jefferson, ID

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	7	1.01	13	0.95
ALL CANCER, EXCL LEUK	-	-	-	-	16	1.26	27	1.07
HODGKIN'S DISEASE	-	-	-	-	1	0.86	5	2.11
OTHER LYMPHOMA	-	-	-	-	5	2.67	2	0.54
MULTIPLE MYELOMA	-	-	-	-	0	0.00	0	0.00
DIGESTIVE ORGANS	-	-	-	-	0	0.00	0	0.00
STOMACH	-	-	-	-	0	0.00	0	0.00
COLON & RECTUM	-	-	-	-	0	0.00	0	0.00
LIVER (PRIMARY)	-	-	-	-	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	-	-	-	-	0	0.00	1	3.63
BREAST (FEMALE)	-	-	-	-	0	0.00	0	0.00
THYROID	-	-	-	-	0	0.00	0	0.00
BONES & JOINTS	-	-	-	-	5	2.12	1	0.21
BLADDER	-	-	-	-	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	-	-	-	-	2	0.61	7	1.09
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	0	0.00	0	0.00

Table 1-A.4

Age at death: 10 to 19

Idaho Nat. Eng. Lab. (1949)
Bingham, ID ; Butte, ID ; Jefferson, ID

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.06	-	-
ALL CANCER, EXCL LEUK	-	1.18	-	-
HODGKIN'S DISEASE	-	0.41	-	-
OTHER LYMPHOMA	-	4.94	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	0.00	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	10.10*	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	0.56	-	-
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.4

Age at death: 20 to 39

Idaho Nat. Eng. Lab. (1949)
Bingham, ID ; Butte, ID ; Jefferson, ID

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	11	1.35	22	1.25
ALL CANCER, EXCL LEUK	-	-	-	-	71	1.05	133	0.90
HODGKIN'S DISEASE	-	-	-	-	7	1.22	15	1.19
OTHER LYMPHOMA	-	-	-	-	7	1.71	9	1.01
MULTIPLE MYELOMA	-	-	-	-	0	0.00	0	0.00
DIGESTIVE ORGANS	-	-	-	-	8	0.73	14	0.59
STOMACH	-	-	-	-	0	0.00	1	0.22
COLON & RECTUM	-	-	-	-	4	0.74	5	0.43
LIVER (PRIMARY)	-	-	-	-	0	0.00	1	0.44
TRACHEA, BRONCHUS, LUNG	-	-	-	-	3	0.53	6	0.50
BREAST (FEMALE)	-	-	-	-	8	0.84	16	0.76
THYROID	-	-	-	-	0	0.00	0	0.00
BONES & JOINTS	-	-	-	-	3	2.32	4	1.43
BLADDER	-	-	-	-	0	0.00	1	1.76
BRAIN & OTHER C.N.S.	-	-	-	-	10	1.59	12	0.87
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	0	0.00	1	0.67

Table 1-A.4

Age at death: 20 to 39

Idaho Nat. Eng. Lab. (1949)
Bingham, ID ; Butte, ID ; Jefferson, ID

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.08	-	-
ALL CANCER, EXCL LEUK	-	1.17	-	-
HODGKIN'S DISEASE	-	1.03	-	-
OTHER LYMPHOMA	-	1.69	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	1.24	-	-
STOMACH	-	0.00	-	-
COLON & RECTUM	-	1.72	-	-
LIVER (PRIMARY)	-	0.00	-	-
TRACHEA, BRONCHUS, LUNG	-	1.06	-	-
BREAST (FEMALE)	-	1.11	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	1.62	-	-
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	-	1.83	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.4

Age at death: 40 to 59

Idaho Nat. Eng. Lab. (1949)
Bingham, ID ; Butte, ID ; Jefferson, ID

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	14	0.79	35	0.82
ALL CANCER, EXCL LEUK	-	-	-	-	315	0.61	971	0.79
HODGKIN'S DISEASE	-	-	-	-	2	0.33	13	0.89
OTHER LYMPHOMA	-	-	-	-	14	0.87	43	1.10
MULTIPLE MYELOMA	-	-	-	-	7	1.19	9	0.65
DIGESTIVE ORGANS	-	-	-	-	70	0.54	233	0.75
STOMACH	-	-	-	-	20	0.89	51	0.96
COLON & RECTUM	-	-	-	-	24	0.43	86	0.63
LIVER (PRIMARY)	-	-	-	-	10	0.91	24	0.90
TRACHEA, BRONCHUS, LUNG	-	-	-	-	52	0.42	179	0.61
BREAST (FEMALE)	-	-	-	-	54	0.79	171	1.02
THYROID	-	-	-	-	0	0.00	3	0.84
BONES & JOINTS	-	-	-	-	3	1.21	3	0.50
BLADDER	-	-	-	-	3	0.42	14	0.80
BRAIN & OTHER C.N.S.	-	-	-	-	19	0.97	34	0.72
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	4	1.68	7	1.27

Table 1-A.4

Age at death: 40 to 59

Idaho Nat. Eng. Lab. (1949)
Bingham, ID ; Butte, ID ; Jefferson, ID

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	0.96	-	-
ALL CANCER, EXCL LEUK	-	0.77***	-	-
HODGKIN'S DISEASE	-	0.37	-	-
OTHER LYMPHOMA	-	0.79	-	-
MULTIPLE MYELOMA	-	1.83	-	-
DIGESTIVE ORGANS	-	0.72*	-	-
STOMACH	-	0.93	-	-
COLON & RECTUM	-	0.68	-	-
LIVER (PRIMARY)	-	1.01	-	-
TRACHEA, BRONCHUS, LUNG	-	0.69*	-	-
BREAST (FEMALE)	-	0.77	-	-
THYROID	-	0.00	-	-
BONES & JOINTS	-	2.42	-	-
BLADDER	-	0.53	-	-
BRAIN & OTHER C.N.S.	-	1.35	-	-
BENIGN & UNSPEC NEOPLASMS	-	1.32	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.4

Age at death: 60 plus

Idaho Nat. Eng. Lab. (1949)
Bingham, ID ; Butte, ID ; Jefferson, ID

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	59	1.14	168	1.07
ALL CANCER, EXCL LEUK	-	-	-	-	992	0.73	3126	0.77
HODGKIN'S DISEASE	-	-	-	-	4	0.59	18	0.89
OTHER LYMPHOMA	-	-	-	-	28	0.76	82	0.75
MULTIPLE MYELOMA	-	-	-	-	20	1.04	49	0.88
DIGESTIVE ORGANS	-	-	-	-	337	0.72	1100	0.77
STOMACH	-	-	-	-	98	1.12	261	0.98
COLON & RECTUM	-	-	-	-	126	0.58	431	0.65
LIVER (PRIMARY)	-	-	-	-	22	0.59	87	0.76
TRACHEA, BRONCHUS, LUNG	-	-	-	-	135	0.47	493	0.61
BREAST (FEMALE)	-	-	-	-	72	0.80	232	0.84
THYROID	-	-	-	-	2	0.45	11	0.81
BONES & JOINTS	-	-	-	-	9	1.58	11	0.63
BLADDER	-	-	-	-	38	0.80	103	0.71
BRAIN & OTHER C.N.S.	-	-	-	-	21	1.01	48	0.81
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	9	1.52	18	1.05

Table 1-A.4

Age at death: 60 plus

Idaho Nat. Eng. Lab. (1949)
Bingham, ID ; Butte, ID ; Jefferson, ID

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.07	-	-
ALL CANCER, EXCL LEUK	-	0.95	-	-
HODGKIN'S DISEASE	-	0.66	-	-
OTHER LYMPHOMA	-	1.01	-	-
MULTIPLE MYELOMA	-	1.18	-	-
DIGESTIVE ORGANS	-	0.94	-	-
STOMACH	-	1.14	-	-
COLON & RECTUM	-	0.89	-	-
LIVER (PRIMARY)	-	0.78	-	-
TRACHEA, BRONCHUS, LUNG	-	0.77**	-	-
BREAST (FEMALE)	-	0.95	-	-
THYROID	-	0.56	-	-
BONES & JOINTS	-	2.51	-	-
BLADDER	-	1.13	-	-
BRAIN & OTHER C.N.S.	-	1.25	-	-
BENIGN & UNSPEC NEOPLASMS	-	1.45	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.4

Age at death: all

Idaho Nat. Eng. Lab. (1949)
Bingham, ID ; Butte, ID ; Jefferson, ID

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	-	-	-	-	104	1.06	265	1.04
ALL CANCER, EXCL LEUK	-	-	-	-	1405	0.71	4282	0.78
HODGKIN'S DISEASE	-	-	-	-	14	0.70	51	1.02
OTHER LYMPHOMA	-	-	-	-	55	0.90	144	0.87
MULTIPLE MYELOMA	-	-	-	-	27	1.06	58	0.83
DIGESTIVE ORGANS	-	-	-	-	415	0.68	1348	0.77
STOMACH	-	-	-	-	118	1.05	313	0.97
COLON & RECTUM	-	-	-	-	154	0.55	522	0.64
LIVER (PRIMARY)	-	-	-	-	32	0.64	113	0.78
TRACHEA, BRONCHUS, LUNG	-	-	-	-	190	0.46	679	0.61
BREAST (FEMALE)	-	-	-	-	134	0.80	419	0.90
THYROID	-	-	-	-	2	0.33	14	0.79
BONES & JOINTS	-	-	-	-	20	1.62	20	0.63
BLADDER	-	-	-	-	41	0.74	118	0.72
BRAIN & OTHER C.N.S.	-	-	-	-	58	1.04	105	0.76
BENIGN & UNSPEC NEOPLASMS	-	-	-	-	13	1.31	27	1.04

Table 1-A.4

Age at death: all

Idaho Nat. Eng. Lab. (1949)
Bingham, ID ; Butte, ID ; Jefferson, ID

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.02	-	-
ALL CANCER, EXCL LEUK	-	0.91**	-	-
HODGKIN'S DISEASE	-	0.69	-	-
OTHER LYMPHOMA	-	1.03	-	-
MULTIPLE MYELOMA	-	1.28	-	-
DIGESTIVE ORGANS	-	0.88*	-	-
STOMACH	-	1.08	-	-
COLON & RECTUM	-	0.86	-	-
LIVER (PRIMARY)	-	0.82	-	-
TRACHEA, BRONCHUS, LUNG	-	0.75***	-	-
BREAST (FEMALE)	-	0.89	-	-
THYROID	-	0.42	-	-
BONES & JOINTS	-	2.57**	-	-
BLADDER	-	1.03	-	-
BRAIN & OTHER C.N.S.	-	1.37	-	-
BENIGN & UNSPEC NEOPLASMS	-	1.26	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.5

Age at death: under 10

Paducah Gas. Diff. (1950)
Ballard, KY ; Mc Cracken, KY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	0	0.00	4	1.40	9	0.70	65	0.88
ALL CANCER, EXCL LEUK	2	3.92	1	0.33	11	0.77	88	1.07
HODGKIN'S DISEASE	1	85.84	0	0.00	0	0.00	1	0.88
OTHER LYMPHOMA	0	0.00	0	0.00	2	1.09	13	1.24
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	1	0.24
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	1	0.38
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	0	0.00	1	0.34
BLADDER	0	0.00	0	0.00	0	0.00	1	2.40
BRAIN & OTHER C.N.S.	1	5.09	0	0.00	5	0.89	32	1.00
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	1	0.32

Table 1-A.5

Age at death: under 10

Paducah Gas. Diff. (1950)
Ballard, KY ; Mc Cracken, KY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.00	0.80	-	0.63
ALL CANCER, EXCL LEUK	11.88	0.72	0.20	3.24
HODGKIN'S DISEASE	-	0.00	0.00	-
OTHER LYMPHOMA	-	0.88	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	0.00	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	0.00	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	0.00	-	-
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	-	0.89	0.17	-
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.5

Age at death: 10 to 19

Paducah Gas. Diff. (1950)
Ballard, KY ; Mc Cracken, KY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	0	0.00	0	0.00	9	1.17	44	0.96
ALL CANCER, EXCL LEUK	1	2.67	0	0.00	18	1.23	89	1.02
HODGKIN'S DISEASE	0	0.00	0	0.00	1	0.73	11	1.35
OTHER LYMPHOMA	0	0.00	0	0.00	3	1.42	11	0.87
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	1	1.37	2	0.46
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	1	3.67	2	1.25
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	1	5.28
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	14.19	0	0.00	6	2.24	9	0.56
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	0	0.00	4	1.10	23	1.06
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	3	1.22

Table 1-A.5

Age at death: 10 to 19

Paducah Gas. Diff. (1950)
Ballard, KY ; Mc Cracken, KY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	1.22	-	-
ALL CANCER, EXCL LEUK	-	1.21	0.46	-
HODGKIN'S DISEASE	-	0.54	-	-
OTHER LYMPHOMA	-	1.63	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	2.98	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	2.94	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	0.00	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	4.00*	0.16	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	1.04	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-A.5

Age at death: 20 to 39

Paducah Gas. Diff. (1950)
Ballard, KY ; Mc Cracken, KY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	0	0.00	0	0.00	11	0.93	83	1.10
ALL CANCER, EXCL LEUK	4	1.14	26	1.27	127	1.23	623	1.00
HODGKIN'S DISEASE	0	0.00	2	1.17	7	0.83	38	0.72
OTHER LYMPHOMA	0	0.00	0	0.00	4	0.67	36	0.96
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	4	1.50
DIGESTIVE ORGANS	0	0.00	6	1.53	16	0.95	79	0.79
STOMACH	0	0.00	1	1.09	1	0.30	11	0.57
COLON & RECTUM	0	0.00	3	1.56	10	1.22	43	0.89
LIVER (PRIMARY)	0	0.00	1	2.34	2	1.16	10	0.97
TRACHEA, BRONCHUS, LUNG	0	0.00	3	2.76	19	2.23	62	1.23
BREAST (FEMALE)	0	0.00	4	1.49	15	0.98	75	0.84
THYROID	0	0.00	0	0.00	0	0.00	1	0.52
BONES & JOINTS	1	14.55	0	0.00	1	0.54	5	0.40
BLADDER	0	0.00	3	24.17	0	0.00	1	0.41
BRAIN & OTHER C.N.S.	0	0.00	2	1.18	14	1.53	64	1.13
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	0.93	5	0.71

Table 1-A.5

Age at death: 20 to 39

Paducah Gas. Diff. (1950)
Ballard, KY ; Mc Cracken, KY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	0.85	-	-
ALL CANCER, EXCL LEUK	0.90	1.23*	1.08	0.79
HODGKIN'S DISEASE	0.00	1.15	-	0.62
OTHER LYMPHOMA	-	0.70	-	-
MULTIPLE MYELOMA	-	0.00	-	-
DIGESTIVE ORGANS	0.00	1.20	-	0.52
STOMACH	0.00	0.53	-	0.52
COLON & RECTUM	0.00	1.37	-	0.57
LIVER (PRIMARY)	0.00	1.20	-	0.41
TRACHEA, BRONCHUS, LUNG	0.00	1.81*	-	0.45
BREAST (FEMALE)	0.00	1.17	-	0.56
THYROID	-	0.00	-	-
BONES & JOINTS	-	1.35	0.04	-
BLADDER	0.00	0.00	-	0.02***
BRAIN & OTHER C.N.S.	0.00	1.35	-	0.96
BENIGN & UNSPEC NEOPLASMS	-	1.31	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.5

Age at death: 40 to 59

Paducah Gas. Diff. (1950)
Ballard, KY ; Mc Cracken, KY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1	1.11	1	0.23	34	1.08	183	1.11
ALL CANCER, EXCL LEUK	23	0.92	119	0.99	1010	1.06	5112	1.02
HODGKIN'S DISEASE	0	0.00	1	0.59	7	0.67	61	1.12
OTHER LYMPHOMA	0	0.00	4	1.34	23	0.81	156	1.04
MULTIPLE MYELOMA	0	0.00	2	1.82	10	0.89	53	0.90
DIGESTIVE ORGANS	4	0.50	36	0.95	228	0.94	1090	0.87
STOMACH	1	0.48	15	1.55	27	0.62	172	0.78
COLON & RECTUM	3	0.94	11	0.72	111	1.07	443	0.82
LIVER (PRIMARY)	0	0.00	3	0.63	29	1.34	97	0.88
TRACHEA, BRONCHUS, LUNG	1	0.31	11	0.71	281	1.28	1390	1.20
BREAST (FEMALE)	6	1.81	19	1.18	124	0.93	625	0.88
THYROID	0	0.00	0	0.00	2	0.72	12	0.84
BONES & JOINTS	0	0.00	1	1.01	6	1.31	27	1.15
BLADDER	0	0.00	4	1.71	14	1.04	75	1.10
BRAIN & OTHER C.N.S.	3	3.70	1	0.25	32	0.95	207	1.16
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	3	0.70	18	0.76

Table 1-A.5

Age at death: 40 to 59

Paducah Gas. Diff. (1950)
Ballard, KY ; Mc Cracken, KY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	4.83	0.97	0.97	4.83
ALL CANCER, EXCL LEUK	0.93	1.04	1.15	1.03
HODGKIN'S DISEASE	0.00	0.60	-	1.90
OTHER LYMPHOMA	0.00	0.78	-	0.78
MULTIPLE MYELOMA	0.00	0.99	-	0.49
DIGESTIVE ORGANS	0.53	1.08	1.88	0.92
STOMACH	0.31	0.79	1.29	0.50*
COLON & RECTUM	1.31	1.30*	1.14	1.14
LIVER (PRIMARY)	0.00	1.52	-	1.40
TRACHEA, BRONCHUS, LUNG	0.44	1.07	4.13	1.69
BREAST (FEMALE)	1.53	1.06	0.51	0.75
THYROID	-	0.86	-	-
BONES & JOINTS	0.00	1.14	-	1.14
BLADDER	0.00	0.95	-	0.64
BRAIN & OTHER C.N.S.	14.80*	0.82	0.26	4.64
BENIGN & UNSPEC NEOPLASMS	-	0.92	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.5

Age at death: 60 plus

Paducah Gas. Diff. (1950)
Ballard, KY ; Mc Cracken, KY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1	0.55	8	1.05	119	1.04	546	1.03
ALL CANCER, EXCL LEUK	54	0.93	197	0.82	2905	0.95	13094	0.92
HODGKIN'S DISEASE	0	0.00	1	0.66	11	0.74	76	1.10
OTHER LYMPHOMA	0	0.00	4	0.98	87	1.08	360	0.94
MULTIPLE MYELOMA	0	0.00	0	0.00	41	0.92	235	1.12
DIGESTIVE ORGANS	23	0.89	90	0.84	991	0.91	4153	0.83
STOMACH	7	0.91	27	0.86	146	0.71	659	0.71
COLON & RECTUM	4	0.39	33	0.77	463	0.92	1862	0.80
LIVER (PRIMARY)	5	1.58	14	1.06	94	1.07	356	0.90
TRACHEA, BRONCHUS, LUNG	8	1.51	13	0.59	610	1.07	2848	1.04
BREAST (FEMALE)	2	0.49	10	0.56	191	0.82	934	0.85
THYROID	0	0.00	0	0.00	12	1.12	43	0.87
BONES & JOINTS	0	0.00	1	0.52	12	0.93	68	1.16
BLADDER	1	0.44	7	0.75	85	0.81	390	0.82
BRAIN & OTHER C.N.S.	0	0.00	1	0.55	33	0.76	206	0.98
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	2	0.15	50	0.77

Table 1-A.5

Age at death: 60 plus

Paducah Gas. Diff. (1950)
Ballard, KY ; Mc Cracken, KY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.52	1.01	1.89	0.98
ALL CANCER, EXCL LEUK	1.13	1.03	1.02	1.12
HODGKIN'S DISEASE	0.00	0.67	-	1.67
OTHER LYMPHOMA	0.00	1.15	-	0.96
MULTIPLE MYELOMA	-	0.82	-	-
DIGESTIVE ORGANS	1.06	1.10*	1.02	0.99
STOMACH	1.06	1.00	0.78	0.83
COLON & RECTUM	0.51	1.15**	2.36	1.04
LIVER (PRIMARY)	1.49	1.19	0.68	0.85
TRACHEA, BRONCHUS, LUNG	2.56	1.03	0.71	1.76*
BREAST (FEMALE)	0.88	0.96	1.67	1.52
THYROID	-	1.29	-	-
BONES & JOINTS	0.00	0.80	-	2.23
BLADDER	0.59	0.99	1.84	1.09
BRAIN & OTHER C.N.S.	0.00	0.78	-	1.78
BENIGN & UNSPEC NEOPLASMS	-	0.19**	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.5

Age at death: all

Paducah Gas. Diff. (1950)
Ballard, KY ; Mc Cracken, KY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	2	0.53	13	0.71	182	1.02	921	1.03
ALL CANCER, EXCL LEUK	84	0.96	343	0.89	4071	0.98	19006	0.95
HODGKIN'S DISEASE	1	0.97	4	0.76	26	0.74	187	1.01
OTHER LYMPHOMA	0	0.00	8	0.91	119	1.00	576	0.97
MULTIPLE MYELOMA	0	0.00	2	0.70	51	0.91	292	1.08
DIGESTIVE ORGANS	27	0.78	132	0.88	1236	0.92	5325	0.84
STOMACH	8	0.80	43	1.02	174	0.69	842	0.72
COLON & RECTUM	7	0.51	47	0.78	585	0.95	2350	0.81
LIVER (PRIMARY)	5	1.17	18	0.97	125	1.11	464	0.89
TRACHEA, BRONCHUS, LUNG	9	1.03	27	0.70	910	1.14	4300	1.09
BREAST (FEMALE)	8	1.01	33	0.90	330	0.86	1635	0.86
THYROID	0	0.00	0	0.00	14	1.01	56	0.85
BONES & JOINTS	2	2.40	2	0.51	25	1.11	110	0.97
BLADDER	1	0.36	14	1.19	99	0.84	467	0.85
BRAIN & OTHER C.N.S.	4	2.21	4	0.43	88	0.92	532	1.07
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	6	0.30	77	0.76

Table 1-A.5

Age at death: all

Paducah Gas. Diff. (1950)
Ballard, KY ; Mc Cracken, KY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.75	0.99	1.92	1.45
ALL CANCER, EXCL LEUK	1.08	1.03	1.02	1.07
HODGKIN'S DISEASE	1.28	0.73	0.76	1.33
OTHER LYMPHOMA	0.00	1.03	-	1.07
MULTIPLE MYELOMA	0.00	0.84	-	1.54
DIGESTIVE ORGANS	0.89	1.10**	1.18	0.95
STOMACH	0.78	0.96	0.86	0.71*
COLON & RECTUM	0.65	1.17***	1.86	1.04
LIVER (PRIMARY)	1.21	1.25*	0.95	0.92
TRACHEA, BRONCHUS, LUNG	1.47	1.05	1.11	1.56*
BREAST (FEMALE)	1.12	1.00	0.85	0.96
THYROID	-	1.19	-	-
BONES & JOINTS	4.71	1.14	0.46	1.90
BLADDER	0.30	0.99	2.33	0.71
BRAIN & OTHER C.N.S.	5.14	0.86	0.42	2.49
BENIGN & UNSPEC NEOPLASMS	-	0.39*	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.6

Age at death: under 10

Savannah River (1950)
Aiken, SC ; Barnwell, SC ; Burke, GA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1	1.26	2	0.83	21	0.81	59	0.92
ALL CANCER, EXCL LEUK	0	0.00	2	0.65	26	0.80	81	0.98
HODGKIN'S DISEASE	0	0.00	0	0.00	1	1.95	2	1.51
OTHER LYMPHOMA	0	0.00	0	0.00	5	1.26	8	0.81
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	1	18.07
DIGESTIVE ORGANS	0	0.00	0	0.00	2	1.16	4	0.91
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	1	1.81
LIVER (PRIMARY)	0	0.00	0	0.00	2	2.01	2	0.79
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	1	1.25
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	1	6.47
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	0	0.00	3	1.11
BLADDER	0	0.00	0	0.00	0	0.00	2	4.97
BRAIN & OTHER C.N.S.	0	0.00	0	0.00	8	0.64	25	0.79
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	2	1.52	1	0.29

Table 1-A.6

Age at death: under 10

Savannah River (1950)
Aiken, SC ; Barnwell, SC ; Burke, GA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.52	0.88	0.64	1.11
ALL CANCER, EXCL LEUK	0.00	0.82	-	1.51
HODGKIN'S DISEASE	-	1.29	-	-
OTHER LYMPHOMA	-	1.56	-	-
MULTIPLE MYELOMA	-	0.00	-	-
DIGESTIVE ORGANS	-	1.27	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	0.00	-	-
LIVER (PRIMARY)	-	2.54	-	-
TRACHEA, BRONCHUS, LUNG	-	0.00	-	-
BREAST (FEMALE)	-	0.00	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	0.00	-	-
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	-	0.81	-	-
BENIGN & UNSPEC NEOPLASMS	-	5.24	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.6

Age at death: 10 to 19

Savannah River (1950)
Aiken, SC ; Barnwell, SC ; Burke, GA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	0	0.00	1	0.94	10	0.61	43	1.02
ALL CANCER, EXCL LEUK	0	0.00	2	0.85	40	1.22	97	1.13
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	9	1.20
OTHER LYMPHOMA	0	0.00	0	0.00	4	0.88	18	1.53
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	5	2.50	13	2.34
STOMACH	0	0.00	0	0.00	1	6.30	1	2.19
COLON & RECTUM	0	0.00	0	0.00	3	3.66	8	3.41
LIVER (PRIMARY)	0	0.00	0	0.00	1	1.45	2	1.07
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	2	2.01
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	10	1.72	11	0.73
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	0	0.00	5	0.63	19	0.92
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	4	1.51

Table 1-A.6

Age at death: 10 to 19

Savannah River (1950)
Aiken, SC ; Barnwell, SC ; Burke, GA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.00	0.60	-	1.09
ALL CANCER, EXCL LEUK	0.00	1.08	-	1.33
HODGKIN'S DISEASE	-	0.00	-	-
OTHER LYMPHOMA	-	0.58	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	1.07	-	-
STOMACH	-	2.88	-	-
COLON & RECTUM	-	1.07	-	-
LIVER (PRIMARY)	-	1.36	-	-
TRACHEA, BRONCHUS, LUNG	-	0.00	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	2.36	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	0.68	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.6

Age at death: 20 to 39

Savannah River (1950)
Aiken, SC ; Barnwell, SC ; Burke, GA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	0	0.00	3	1.73	32	1.39	46	0.76
ALL CANCER, EXCL LEUK	2	0.33	17	0.93	218	1.04	584	1.06
HODGKIN'S DISEASE	0	0.00	1	0.81	9	0.60	33	0.86
OTHER LYMPHOMA	0	0.00	1	1.19	8	0.69	34	1.12
MULTIPLE MYELOMA	0	0.00	0	0.00	2	1.89	6	2.09
DIGESTIVE ORGANS	0	0.00	5	1.36	37	1.02	105	1.08
STOMACH	0	0.00	2	2.13	8	1.04	29	1.38
COLON & RECTUM	0	0.00	2	1.23	14	0.85	48	1.10
LIVER (PRIMARY)	0	0.00	0	0.00	5	1.17	10	0.84
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	12	0.67	35	0.75
BREAST (FEMALE)	0	0.00	1	0.42	26	0.84	84	1.05
THYROID	0	0.00	0	0.00	0	0.00	5	3.02
BONES & JOINTS	0	0.00	1	2.82	9	2.46	11	1.10
BLADDER	0	0.00	0	0.00	0	0.00	3	1.19
BRAIN & OTHER C.N.S.	0	0.00	0	0.00	22	1.34	43	1.02
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	9	1.35

Table 1-A.6

Age at death: 20 to 39

Savannah River (1950)
Aiken, SC ; Barnwell, SC ; Burke, GA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.00	1.83*	-	0.44
ALL CANCER, EXCL LEUK	0.35	0.98	3.15	1.14
HODGKIN'S DISEASE	0.00	0.70	-	1.06
OTHER LYMPHOMA	0.00	0.62	-	0.94
MULTIPLE MYELOMA	-	0.90	-	-
DIGESTIVE ORGANS	0.00	0.94	-	0.79
STOMACH	0.00	0.75	-	0.65
COLON & RECTUM	0.00	0.77	-	0.89
LIVER (PRIMARY)	-	1.39	-	-
TRACHEA, BRONCHUS, LUNG	-	0.89	-	-
BREAST (FEMALE)	0.00	0.80	-	2.50
THYROID	-	0.00	-	-
BONES & JOINTS	0.00	2.24	-	0.39
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	-	1.31	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.6

Age at death: 40 to 59

Savannah River (1950)
Aiken, SC ; Barnwell, SC ; Burke, GA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3	2.88	4	1.42	53	1.06	103	0.84
ALL CANCER, EXCL LEUK	30	0.89	88	0.98	1626	0.98	4059	0.98
HODGKIN'S DISEASE	0	0.00	2	1.86	14	0.88	26	0.68
OTHER LYMPHOMA	1	1.47	1	0.54	41	0.93	101	0.95
MULTIPLE MYELOMA	0	0.00	1	1.16	24	1.10	65	1.16
DIGESTIVE ORGANS	7	0.63	24	0.82	367	0.86	997	0.92
STOMACH	4	1.21	7	0.82	81	1.00	251	1.20
COLON & RECTUM	2	0.52	7	0.68	119	0.72	284	0.70
LIVER (PRIMARY)	0	0.00	3	0.79	42	1.09	98	0.98
TRACHEA, BRONCHUS, LUNG	1	0.26	5	0.48	455	1.17	960	1.01
BREAST (FEMALE)	2	0.50	7	0.65	195	0.91	461	0.87
THYROID	0	0.00	1	2.72	3	0.67	8	0.71
BONES & JOINTS	1	3.63	4	5.45	5	0.67	21	1.11
BLADDER	0	0.00	1	0.54	16	0.69	43	0.75
BRAIN & OTHER C.N.S.	1	1.26	6	2.73	47	0.93	110	0.92
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	6	0.70	18	0.84

Table 1-A.6

Age at death: 40 to 59

Savannah River (1950)
Aiken, SC ; Barnwell, SC ; Burke, GA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	2.03	1.26	0.37	0.59
ALL CANCER, EXCL LEUK	0.91	1.00	1.10	1.00
HODGKIN'S DISEASE	0.00	1.29	-	0.37
OTHER LYMPHOMA	2.72	0.98	0.63	1.76
MULTIPLE MYELOMA	0.00	0.95	-	1.00
DIGESTIVE ORGANS	0.77	0.93	1.37	1.12
STOMACH	1.48	0.83	0.83	1.46
COLON & RECTUM	0.76	1.03	1.38	1.03
LIVER (PRIMARY)	0.00	1.11	-	1.24
TRACHEA, BRONCHUS, LUNG	0.54	1.16**	4.50	2.10
BREAST (FEMALE)	0.77	1.05	1.82	1.34
THYROID	0.00	0.94	-	0.26
BONES & JOINTS	0.67	0.60	0.18	0.20*
BLADDER	0.00	0.92	-	1.39
BRAIN & OTHER C.N.S.	0.46	1.01	0.74	0.34*
BENIGN & UNSPEC NEOPLASMS	-	0.83	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.6

Age at death: 60 plus

Savannah River (1950)
Aiken, SC ; Barnwell, SC ; Burke, GA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	0	0.00	7	1.74	115	0.93	296	0.95
ALL CANCER, EXCL LEUK	42	0.72	121	0.81	3346	0.89	7904	0.83
HODGKIN'S DISEASE	0	0.00	1	1.21	14	0.89	42	1.06
OTHER LYMPHOMA	0	0.00	0	0.00	62	0.69	192	0.86
MULTIPLE MYELOMA	1	2.38	0	0.00	61	0.97	169	1.05
DIGESTIVE ORGANS	16	0.62	54	0.82	958	0.73	2410	0.73
STOMACH	1	0.12	20	0.93	165	0.63	498	0.75
COLON & RECTUM	9	0.97	19	0.79	368	0.65	907	0.63
LIVER (PRIMARY)	3	0.95	6	0.74	93	0.90	185	0.70
TRACHEA, BRONCHUS, LUNG	1	0.21	14	1.10	760	1.03	1625	0.89
BREAST (FEMALE)	1	0.24	6	0.56	200	0.72	512	0.72
THYROID	0	0.00	0	0.00	6	0.49	21	0.67
BONES & JOINTS	0	0.00	0	0.00	18	1.25	33	0.91
BLADDER	0	0.00	3	0.56	113	0.99	197	0.69
BRAIN & OTHER C.N.S.	0	0.00	1	1.08	48	0.94	118	0.94
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	17	0.92	43	0.92

Table 1-A.6

Age at death: 60 plus

Savannah River (1950)
Aiken, SC ; Barnwell, SC ; Burke, GA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.00	0.98	-	0.55
ALL CANCER, EXCL LEUK	0.89	1.07**	1.24	1.02
HODGKIN'S DISEASE	0.00	0.84	-	0.88
OTHER LYMPHOMA	-	0.80	-	-
MULTIPLE MYELOMA	-	0.92	0.41	-
DIGESTIVE ORGANS	0.76	1.00	1.18	0.89
STOMACH	0.13*	0.84	5.25	0.81
COLON & RECTUM	1.23	1.03	0.67	0.80
LIVER (PRIMARY)	1.28	1.29	0.95	0.95
TRACHEA, BRONCHUS, LUNG	0.19	1.16***	4.90	0.81
BREAST (FEMALE)	0.43	1.00	3.00	1.29
THYROID	-	0.73	-	-
BONES & JOINTS	-	1.37	-	-
BLADDER	0.00	1.43**	-	1.23
BRAIN & OTHER C.N.S.	0.00	1.00	-	0.87
BENIGN & UNSPEC NEOPLASMS	-	1.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.6

Age at death: all

Savannah River (1950)
Aiken, SC ; Barnwell, SC ; Burke, GA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4	0.94	17	1.41	231	0.96	547	0.91
ALL CANCER, EXCL LEUK	74	0.74	230	0.88	5256	0.92	12725	0.89
HODGKIN'S DISEASE	0	0.00	4	1.16	38	0.76	112	0.90
OTHER LYMPHOMA	1	0.51	2	0.36	120	0.78	353	0.93
MULTIPLE MYELOMA	1	1.28	1	0.49	87	1.01	241	1.10
DIGESTIVE ORGANS	23	0.60	83	0.83	1369	0.77	3529	0.78
STOMACH	5	0.41	29	0.94	255	0.73	779	0.87
COLON & RECTUM	11	0.80	28	0.78	504	0.67	1248	0.66
LIVER (PRIMARY)	3	0.62	9	0.72	143	0.97	297	0.78
TRACHEA, BRONCHUS, LUNG	2	0.22	19	0.79	1227	1.07	2623	0.93
BREAST (FEMALE)	3	0.34	14	0.59	421	0.80	1058	0.80
THYROID	0	0.00	1	0.90	9	0.51	34	0.76
BONES & JOINTS	1	0.99	5	1.80	42	1.29	79	0.95
BLADDER	0	0.00	4	0.54	129	0.93	245	0.70
BRAIN & OTHER C.N.S.	1	0.48	7	1.17	130	0.94	315	0.93
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	25	0.78	75	0.93

Table 1-A.6

Age at death: all

Savannah River (1950)
Aiken, SC ; Barnwell, SC ; Burke, GA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.67	1.05	1.02	0.65
ALL CANCER, EXCL LEUK	0.84	1.03*	1.24	1.01
HODGKIN'S DISEASE	0.00	0.84	-	0.78
OTHER LYMPHOMA	1.42	0.84	1.53	2.58
MULTIPLE MYELOMA	2.61	0.92	0.79	2.24
DIGESTIVE ORGANS	0.72	0.99	1.28	0.94
STOMACH	0.44	0.84*	1.78	0.93
COLON & RECTUM	1.03	1.02	0.84	0.85
LIVER (PRIMARY)	0.86	1.24*	1.56	1.08
TRACHEA, BRONCHUS, LUNG	0.28	1.15***	4.86**	1.18
BREAST (FEMALE)	0.58	1.00	2.35	1.36
THYROID	0.00	0.67	-	0.84
BONES & JOINTS	0.55	1.36	1.30	0.53
BLADDER	0.00	1.33*	-	1.30
BRAIN & OTHER C.N.S.	0.41	1.01	1.96	0.79
BENIGN & UNSPEC NEOPLASMS	-	0.84	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.7

Age at death: under 10

Fernald (1951)
Butler, OH ; Hamilton, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	16	1.11	12	0.81	218	0.99	255	1.00
ALL CANCER, EXCL LEUK	15	0.96	22	1.39	258	1.04	280	0.98
HODGKIN'S DISEASE	0	0.00	1	3.04	3	0.90	0	0.00
OTHER LYMPHOMA	1	0.48	1	0.46	42	1.34	45	1.25
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	1	1.04	11	0.86	20	1.36
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	3	2.26	2	1.36
LIVER (PRIMARY)	0	0.00	1	2.14	3	0.38	12	1.28
TRACHEA, BRONCHUS, LUNG	0	0.00	1	6.64	4	1.80	3	1.17
BREAST (FEMALE)	0	0.00	0	0.00	1	2.52	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	1	1.68	4	0.47	12	1.22
BLADDER	0	0.00	0	0.00	3	2.41	2	1.42
BRAIN & OTHER C.N.S.	10	1.68	9	1.48	109	1.13	105	0.94
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	5	0.51	15	1.23

Table 1-A.7

Age at death: under 10

Fernald (1951)
Butler, OH ; Hamilton, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.37	0.99	0.89	1.23
ALL CANCER, EXCL LEUK	0.69	1.06	1.08	0.71
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	1.04	1.07	2.79	2.72
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	0.63	-	1.31
STOMACH	-	-	-	-
COLON & RECTUM	-	1.66	-	-
LIVER (PRIMARY)	0.00	0.30	-	0.60
TRACHEA, BRONCHUS, LUNG	0.00	1.54	-	0.18
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	0.39	-	0.73
BLADDER	-	1.70	-	-
BRAIN & OTHER C.N.S.	1.14	1.20	0.67	0.64
BENIGN & UNSPEC NEOPLASMS	-	0.41	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.7

Age at death: 10 to 19

Fernald (1951)
Butler, OH ; Hamilton, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8	1.55	2	0.39	119	0.95	115	0.77
ALL CANCER, EXCL LEUK	10	0.97	7	0.69	233	0.97	290	1.03
HODGKIN'S DISEASE	2	1.84	1	0.93	14	0.64	31	1.21
OTHER LYMPHOMA	1	0.76	1	0.77	39	1.13	36	0.88
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	1	5.86
DIGESTIVE ORGANS	1	1.40	2	2.87	12	0.99	11	0.80
STOMACH	0	0.00	0	0.00	0	0.00	1	1.14
COLON & RECTUM	0	0.00	1	2.90	4	0.89	3	0.61
LIVER (PRIMARY)	0	0.00	1	7.02	4	0.90	2	0.39
TRACHEA, BRONCHUS, LUNG	1	5.30	0	0.00	1	0.39	3	1.02
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	1	1.72
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.51	2	1.03	46	1.05	54	1.05
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	3	1.21	1	0.41	61	1.02	75	1.07
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	2	0.26	7	0.76

Table 1-A.7

Age at death: 10 to 19

Fernald (1951)
Butler, OH ; Hamilton, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	3.97	1.23	0.61	1.97
ALL CANCER, EXCL LEUK	1.41	0.94	1.00	1.49
HODGKIN'S DISEASE	1.98	0.53	0.35	1.30
OTHER LYMPHOMA	0.99	1.28	1.49	1.14
MULTIPLE MYELOMA	-	0.00	-	-
DIGESTIVE ORGANS	0.49	1.24	0.71	0.28
STOMACH	-	0.00	-	-
COLON & RECTUM	0.00	1.46	-	0.21
LIVER (PRIMARY)	0.00	2.31	-	0.06
TRACHEA, BRONCHUS, LUNG	-	0.38	0.07	-
BREAST (FEMALE)	-	0.00	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.50	1.00	2.06	1.02
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	2.95	0.95	0.84	2.61
BENIGN & UNSPEC NEOPLASMS	-	0.34	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.7

Age at death: 20 to 39

Fernald (1951)
Butler, OH ; Hamilton, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8	0.66	10	0.81	193	0.94	258	1.01
ALL CANCER, EXCL LEUK	130	1.13	128	1.15	1960	1.12	2161	1.03
HODGKIN'S DISEASE	10	1.09	16	1.68	152	1.07	184	1.04
OTHER LYMPHOMA	15	2.64	6	1.04	106	1.04	127	1.00
MULTIPLE MYELOMA	2	4.14	2	4.35	6	0.76	7	0.77
DIGESTIVE ORGANS	19	0.86	18	0.84	273	0.96	358	1.08
STOMACH	4	0.77	1	0.20	38	0.67	57	0.89
COLON & RECTUM	12	1.12	12	1.14	139	1.02	203	1.27
LIVER (PRIMARY)	2	0.82	2	0.86	44	1.43	29	0.82
TRACHEA, BRONCHUS, LUNG	6	0.99	8	1.34	193	1.34	205	1.18
BREAST (FEMALE)	14	0.90	16	1.11	319	1.27	285	0.97
THYROID	1	2.53	0	0.00	8	1.50	8	1.26
BONES & JOINTS	3	1.29	3	1.27	44	1.32	40	0.95
BLADDER	0	0.00	0	0.00	8	1.17	11	1.41
BRAIN & OTHER C.N.S.	8	0.87	13	1.39	165	1.09	206	1.09
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	16	0.81	21	0.81

Table 1-A.7

Age at death: 20 to 39

Fernald (1951)
Butler, OH ; Hamilton, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.81	0.93	1.42	1.25
ALL CANCER, EXCL LEUK	0.98	1.09**	0.99	0.90
HODGKIN'S DISEASE	0.65	1.03	0.98	0.62
OTHER LYMPHOMA	2.54	1.04	0.39**	0.96
MULTIPLE MYELOMA	0.95	0.99	0.18	0.18
DIGESTIVE ORGANS	1.02	0.89	1.12	1.29
STOMACH	3.85	0.75	0.87	4.45
COLON & RECTUM	0.98	0.80	0.91	1.11
LIVER (PRIMARY)	0.95	1.74*	1.74	0.95
TRACHEA, BRONCHUS, LUNG	0.74	1.14	1.35	0.88
BREAST (FEMALE)	0.81	1.31**	1.41	0.87
THYROID	-	1.19	0.59	-
BONES & JOINTS	1.02	1.39	1.02	0.75
BLADDER	-	0.83	-	-
BRAIN & OTHER C.N.S.	0.63	1.00	1.25	0.78
BENIGN & UNSPEC NEOPLASMS	-	1.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.7

Age at death: 40 to 59

Fernald (1951)
Butler, OH ; Hamilton, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	29	1.05	22	0.89	461	0.99	543	1.10
ALL CANCER, EXCL LEUK	860	1.13	706	1.05	17339	1.20	16560	1.10
HODGKIN'S DISEASE	12	1.13	10	1.05	145	0.94	189	1.16
OTHER LYMPHOMA	20	1.05	15	0.88	421	1.00	477	1.05
MULTIPLE MYELOMA	9	1.28	5	0.81	197	1.12	186	1.03
DIGESTIVE ORGANS	264	1.08	255	1.19	4243	1.16	3821	1.02
STOMACH	44	0.71	34	0.62	567	0.87	517	0.80
COLON & RECTUM	119	1.22	121	1.40	1974	1.29	1763	1.10
LIVER (PRIMARY)	40	1.30	38	1.41	367	1.13	340	1.06
TRACHEA, BRONCHUS, LUNG	117	1.18	96	1.09	4583	1.37	4517	1.25
BREAST (FEMALE)	116	1.15	65	0.74	2372	1.19	2184	1.04
THYROID	3	0.92	1	0.35	58	1.42	44	1.05
BONES & JOINTS	2	0.32	7	1.26	73	1.09	80	1.17
BLADDER	26	1.72	15	1.13	245	1.24	215	1.07
BRAIN & OTHER C.N.S.	26	1.03	21	0.93	508	1.03	540	1.00
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	64	0.93	64	0.83

Table 1-A.7

Age at death: 40 to 59

Fernald (1951)
Butler, OH ; Hamilton, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.18	0.90	0.94	1.24
ALL CANCER, EXCL LEUK	1.08	1.09***	1.06	1.05
HODGKIN'S DISEASE	1.08	0.81	0.83	1.10
OTHER LYMPHOMA	1.19	0.95	0.95	1.19
MULTIPLE MYELOMA	1.58	1.09	0.88	1.27
DIGESTIVE ORGANS	0.91	1.14***	1.07	0.86*
STOMACH	1.15	1.09	1.23	1.29
COLON & RECTUM	0.87	1.17***	1.06	0.79*
LIVER (PRIMARY)	0.92	1.07	0.87	0.75
TRACHEA, BRONCHUS, LUNG	1.08	1.10***	1.16	1.15
BREAST (FEMALE)	1.55**	1.14***	1.03	1.41**
THYROID	2.63	1.35	1.54	3.00
BONES & JOINTS	0.25	0.93	3.41	0.93
BLADDER	1.52	1.16	0.72	0.95
BRAIN & OTHER C.N.S.	1.11	1.03	1.00	1.08
BENIGN & UNSPEC NEOPLASMS	-	1.12	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.7

Age at death: 60 plus

Fernald (1951)
Butler, OH ; Hamilton, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	63	1.23	58	1.20	1512	1.04	1601	1.12
ALL CANCER, EXCL LEUK	1804	1.11	1513	1.00	45800	1.17	40946	1.07
HODGKIN'S DISEASE	7	0.69	13	1.36	174	0.91	216	1.16
OTHER LYMPHOMA	35	1.28	23	0.90	1091	1.06	1002	0.98
MULTIPLE MYELOMA	19	1.72	10	0.97	603	1.04	593	1.05
DIGESTIVE ORGANS	783	1.08	675	0.99	16217	1.16	14116	1.04
STOMACH	185	0.88	141	0.71	2197	0.84	2019	0.81
COLON & RECTUM	358	1.22	308	1.12	8593	1.34	7152	1.14
LIVER (PRIMARY)	118	1.30	120	1.42	1312	1.15	1203	1.10
TRACHEA, BRONCHUS, LUNG	155	1.08	107	0.79	9384	1.29	8564	1.17
BREAST (FEMALE)	166	1.30	124	1.07	3785	1.22	3262	1.08
THYROID	11	1.43	5	0.70	162	1.16	148	1.09
BONES & JOINTS	9	0.70	15	1.23	179	1.09	159	1.00
BLADDER	73	1.17	47	0.79	1644	1.26	1373	1.07
BRAIN & OTHER C.N.S.	17	1.39	9	0.79	643	1.16	602	1.08
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	158	0.90	170	0.98

Table 1-A.7

Age at death: 60 plus

Fernald (1951)
Butler, OH ; Hamilton, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.03	0.93	0.85	0.93
ALL CANCER, EXCL LEUK	1.11**	1.09***	1.05*	1.07**
HODGKIN'S DISEASE	0.51	0.78*	1.32	0.85
OTHER LYMPHOMA	1.42	1.08	0.83	1.09
MULTIPLE MYELOMA	1.77	0.99	0.60	1.08
DIGESTIVE ORGANS	1.09	1.12***	1.07*	1.05
STOMACH	1.24	1.04	0.95	1.14
COLON & RECTUM	1.09	1.18***	1.10	1.02
LIVER (PRIMARY)	0.92	1.05	0.88	0.77*
TRACHEA, BRONCHUS, LUNG	1.37*	1.10***	1.19*	1.48***
BREAST (FEMALE)	1.21	1.13***	0.94	1.01
THYROID	2.04	1.06	0.81	1.56
BONES & JOINTS	0.57	1.09	1.56	0.81
BLADDER	1.48*	1.18***	1.08	1.35*
BRAIN & OTHER C.N.S.	1.76	1.07	0.83	1.37
BENIGN & UNSPEC NEOPLASMS	-	0.92	-	-

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-A.7

Age at death: all

Fernald (1951)
Butler, OH ; Hamilton, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	124	1.12	104	0.99	2503	1.01	2772	1.07
ALL CANCER, EXCL LEUK	2819	1.12	2376	1.02	65590	1.18	60237	1.07
HODGKIN'S DISEASE	31	0.99	41	1.37	488	0.95	620	1.11
OTHER LYMPHOMA	72	1.30	46	0.89	1699	1.05	1687	1.00
MULTIPLE MYELOMA	30	1.61	17	1.00	806	1.05	787	1.04
DIGESTIVE ORGANS	1067	1.07	951	1.03	20756	1.16	18326	1.04
STOMACH	233	0.84	176	0.68	2802	0.85	2594	0.81
COLON & RECTUM	489	1.21	442	1.19	10713	1.32	9123	1.13
LIVER (PRIMARY)	160	1.29	162	1.42	1730	1.15	1586	1.09
TRACHEA, BRONCHUS, LUNG	279	1.12	212	0.92	14165	1.31	13292	1.20
BREAST (FEMALE)	296	1.21	205	0.94	6477	1.21	5732	1.06
THYROID	15	1.31	6	0.58	228	1.22	200	1.08
BONES & JOINTS	15	0.62	28	1.24	346	1.09	345	1.04
BLADDER	99	1.27	62	0.85	1900	1.26	1601	1.07
BRAIN & OTHER C.N.S.	64	1.17	53	1.02	1486	1.10	1528	1.04
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	245	0.87	277	0.93

Table 1-A.7

Age at death: all

Fernald (1951)
Butler, OH ; Hamilton, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.13	0.94*	0.90	1.08
ALL CANCER, EXCL LEUK	1.10**	1.10***	1.05**	1.05*
HODGKIN'S DISEASE	0.72	0.86*	0.96	0.81
OTHER LYMPHOMA	1.46	1.05	0.81	1.12
MULTIPLE MYELOMA	1.61	1.01	0.65*	1.04
DIGESTIVE ORGANS	1.04	1.12***	1.08*	1.01
STOMACH	1.24*	1.05	1.01	1.19*
COLON & RECTUM	1.02	1.17***	1.09	0.95
LIVER (PRIMARY)	0.91	1.06	0.89	0.77**
TRACHEA, BRONCHUS, LUNG	1.22*	1.09***	1.17**	1.30***
BREAST (FEMALE)	1.29**	1.14***	1.00	1.13
THYROID	2.26	1.13	0.93	1.86
BONES & JOINTS	0.50*	1.05	1.76*	0.84
BLADDER	1.49*	1.18***	0.99	1.26
BRAIN & OTHER C.N.S.	1.15	1.06	0.94	1.02
BENIGN & UNSPEC NEOPLASMS	-	0.94	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.8

Age at death: under 10

Portsmouth Gas. Diff. (1952)
Pike, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1	2.09	1	0.60	2	0.45	9	0.77
ALL CANCER, EXCL LEUK	0	0.00	0	0.00	5	1.03	6	0.47
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	0	0.00	1	1.60	1	0.61
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	0	0.00	2	1.04	3	0.60
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	0	0.00

Table 1-A.8

Age at death: under 10

Portsmouth Gas. Diff. (1952)
Pike, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	3.48	0.58	0.22	1.28
ALL CANCER, EXCL LEUK	-	2.19	-	-
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	-	2.62	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	-	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	1.73	-	-
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.8

Age at death: 10 to 19

Portsmouth Gas. Diff. (1952)
Pike, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	0	0.00	1	1.38	2	0.75	6	0.80
ALL CANCER, EXCL LEUK	0	0.00	1	0.72	5	1.02	11	0.79
HODGKIN'S DISEASE	0	0.00	1	6.86	0	0.00	1	0.76
OTHER LYMPHOMA	0	0.00	0	0.00	1	1.36	2	0.97
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	1	1.57
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	1	4.50
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	1	110.13	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	0	0.00	2	1.59	4	1.14
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	1	2.68

Table 1-A.8

Age at death: 10 to 19

Portsmouth Gas. Diff. (1952)
Pike, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.00	0.94	-	0.58
ALL CANCER, EXCL LEUK	0.00	1.29	-	1.10
HODGKIN'S DISEASE	0.00	0.00	-	0.11
OTHER LYMPHOMA	-	1.40	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	0.00	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	0.00	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	-	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	1.39	-	-
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.8

Age at death: 20 to 39

Portsmouth Gas. Diff. (1952)
Pike, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	0	0.00	0	0.00	2	0.60	7	0.72
ALL CANCER, EXCL LEUK	2	0.87	11	1.20	40	1.45	86	1.06
HODGKIN'S DISEASE	0	0.00	0	0.00	3	1.27	8	1.15
OTHER LYMPHOMA	0	0.00	0	0.00	3	1.78	2	0.40
MULTIPLE MYELOMA	0	0.00	0	0.00	1	8.70	2	5.92
DIGESTIVE ORGANS	0	0.00	2	1.14	8	1.88	14	1.11
STOMACH	0	0.00	1	2.48	0	0.00	3	1.27
COLON & RECTUM	0	0.00	0	0.00	6	2.83	7	1.12
LIVER (PRIMARY)	0	0.00	1	5.57	0	0.00	1	0.81
TRACHEA, BRONCHUS, LUNG	0	0.00	2	3.97	5	2.12	10	1.47
BREAST (FEMALE)	1	3.17	2	1.64	3	0.76	12	1.02
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	1	1.92	2	1.28
BLADDER	0	0.00	0	0.00	0	0.00	1	3.38
BRAIN & OTHER C.N.S.	1	5.03	2	2.51	2	0.77	3	0.40
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	3.23	0	0.00

Table 1-A.8

Age at death: 20 to 39

Portsmouth Gas. Diff. (1952)
Pike, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	0.83	-	-
ALL CANCER, EXCL LEUK	0.73	1.37	1.67	0.88
HODGKIN'S DISEASE	-	1.10	-	-
OTHER LYMPHOMA	-	4.45	-	-
MULTIPLE MYELOMA	-	1.47	-	-
DIGESTIVE ORGANS	0.00	1.69	-	0.97
STOMACH	0.00	0.00	-	0.51
COLON & RECTUM	-	2.53	-	-
LIVER (PRIMARY)	0.00	0.00	-	0.15
TRACHEA, BRONCHUS, LUNG	0.00	1.44	-	0.37
BREAST (FEMALE)	1.93	0.75	0.24	0.62
THYROID	-	-	-	-
BONES & JOINTS	-	1.50	-	-
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	2.00	1.93	0.15	0.16
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.8

Age at death: 40 to 59

Portsmouth Gas. Diff. (1952)
Pike, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3	5.20	1	0.41	10	1.36	30	1.23
ALL CANCER, EXCL LEUK	15	1.00	57	0.89	218	1.01	739	1.02
HODGKIN'S DISEASE	0	0.00	1	1.07	3	1.24	17	2.10
OTHER LYMPHOMA	0	0.00	3	1.78	7	1.01	18	0.79
MULTIPLE MYELOMA	0	0.00	0	0.00	3	1.22	10	1.21
DIGESTIVE ORGANS	4	0.83	16	0.78	51	0.97	178	1.00
STOMACH	3	2.53	3	0.60	9	1.05	23	0.78
COLON & RECTUM	0	0.00	6	0.71	19	0.81	83	1.05
LIVER (PRIMARY)	0	0.00	3	1.18	5	1.18	14	0.93
TRACHEA, BRONCHUS, LUNG	2	0.94	5	0.57	59	1.10	182	1.05
BREAST (FEMALE)	2	1.03	6	0.71	16	0.53	96	0.95
THYROID	0	0.00	0	0.00	0	0.00	1	0.49
BONES & JOINTS	0	0.00	0	0.00	0	0.00	2	0.60
BLADDER	0	0.00	1	0.78	3	1.04	14	1.43
BRAIN & OTHER C.N.S.	1	1.83	2	0.87	9	1.09	20	0.74
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	0.93	4	1.19

Table 1-A.8

Age at death: 40 to 59

Portsmouth Gas. Diff. (1952)
Pike, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	12.68*	1.11	0.26	3.00
ALL CANCER, EXCL LEUK	1.12	0.99	1.01	1.15
HODGKIN'S DISEASE	0.00	0.59	-	1.96
OTHER LYMPHOMA	0.00	1.28	-	0.44
MULTIPLE MYELOMA	-	1.01	-	-
DIGESTIVE ORGANS	1.06	0.97	1.17	1.28
STOMACH	4.22	1.35	0.42	1.30
COLON & RECTUM	0.00	0.77	-	1.48
LIVER (PRIMARY)	0.00	1.27	-	0.79
TRACHEA, BRONCHUS, LUNG	1.65	1.05	1.17	1.84
BREAST (FEMALE)	1.45	0.56*	0.51	1.34
THYROID	-	0.00	-	-
BONES & JOINTS	-	0.00	-	-
BLADDER	0.00	0.73	-	1.83
BRAIN & OTHER C.N.S.	2.10	1.47	0.60	0.85
BENIGN & UNSPEC NEOPLASMS	-	0.78	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.8

Age at death: 60 plus

Portsmouth Gas. Diff. (1952)
Pike, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	0	0.00	6	0.88	30	0.96	103	1.04
ALL CANCER, EXCL LEUK	39	0.85	170	0.80	718	0.90	2286	0.89
HODGKIN'S DISEASE	0	0.00	1	0.76	1	0.26	18	1.40
OTHER LYMPHOMA	0	0.00	2	0.57	23	1.04	65	0.94
MULTIPLE MYELOMA	0	0.00	0	0.00	11	0.96	41	1.16
DIGESTIVE ORGANS	16	0.78	66	0.69	257	0.93	787	0.87
STOMACH	8	1.32	10	0.36	43	0.88	152	0.89
COLON & RECTUM	3	0.36	29	0.75	118	0.91	374	0.88
LIVER (PRIMARY)	3	1.23	18	1.57	30	1.46	65	0.88
TRACHEA, BRONCHUS, LUNG	2	0.46	15	0.80	136	0.83	420	0.85
BREAST (FEMALE)	2	0.70	12	0.83	34	0.63	149	0.83
THYROID	1	5.07	1	1.06	1	0.39	8	0.91
BONES & JOINTS	0	0.00	1	0.58	7	2.19	13	1.19
BLADDER	2	1.06	3	0.35	27	0.94	67	0.73
BRAIN & OTHER C.N.S.	0	0.00	2	1.37	10	0.84	28	0.77
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	0.27	6	0.56

Table 1-A.8

Age at death: 60 plus

Portsmouth Gas. Diff. (1952)
Pike, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.00	0.92	-	1.18
ALL CANCER, EXCL LEUK	1.06	1.01	1.06	1.11
HODGKIN'S DISEASE	0.00	0.19	-	1.84
OTHER LYMPHOMA	0.00	1.11	-	1.65
MULTIPLE MYELOMA	-	0.83	-	-
DIGESTIVE ORGANS	1.13	1.07	1.19	1.26
STOMACH	3.67*	0.99	0.67	2.47**
COLON & RECTUM	0.48	1.03	2.53	1.17
LIVER (PRIMARY)	0.78	1.66*	1.19	0.56
TRACHEA, BRONCHUS, LUNG	0.58	0.98	1.80	1.06
BREAST (FEMALE)	0.84	0.76	0.90	1.00
THYROID	4.78	0.43	0.08	0.86
BONES & JOINTS	0.00	1.84	-	2.05
BLADDER	3.03	1.29	0.89	2.09
BRAIN & OTHER C.N.S.	0.00	1.09	-	0.56
BENIGN & UNSPEC NEOPLASMS	-	0.48	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.8

Age at death: all

Portsmouth Gas. Diff. (1952)
Pike, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4	1.32	9	0.71	46	0.94	155	1.02
ALL CANCER, EXCL LEUK	56	0.88	239	0.83	986	0.94	3128	0.92
HODGKIN'S DISEASE	0	0.00	3	0.93	7	0.76	44	1.50
OTHER LYMPHOMA	0	0.00	5	0.82	35	1.09	88	0.88
MULTIPLE MYELOMA	0	0.00	0	0.00	15	1.07	53	1.20
DIGESTIVE ORGANS	20	0.77	84	0.71	316	0.95	980	0.89
STOMACH	11	1.49	14	0.42	52	0.89	178	0.88
COLON & RECTUM	3	0.29	35	0.73	143	0.92	465	0.91
LIVER (PRIMARY)	3	0.97	22	1.54	35	1.37	80	0.88
TRACHEA, BRONCHUS, LUNG	4	0.60	22	0.78	200	0.91	612	0.91
BREAST (FEMALE)	5	0.98	20	0.83	54	0.61	257	0.88
THYROID	1	3.67	1	0.79	1	0.30	9	0.81
BONES & JOINTS	0	0.00	1	0.36	8	1.39	17	0.90
BLADDER	2	0.90	4	0.40	30	0.95	82	0.80
BRAIN & OTHER C.N.S.	2	1.45	6	1.08	25	0.96	58	0.73
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	3	0.55	11	0.70

Table 1-A.8

Age at death: all

Portsmouth Gas. Diff. (1952)
Pike, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.86	0.92	0.71	1.44
ALL CANCER, EXCL LEUK	1.06	1.02	1.07	1.11
HODGKIN'S DISEASE	0.00	0.51	-	1.61
OTHER LYMPHOMA	0.00	1.24	-	1.07
MULTIPLE MYELOMA	-	0.89	-	-
DIGESTIVE ORGANS	1.08	1.07	1.23	1.25*
STOMACH	3.55**	1.01	0.60	2.10**
COLON & RECTUM	0.40	1.01	3.17*	1.25
LIVER (PRIMARY)	0.63	1.56*	1.41	0.57*
TRACHEA, BRONCHUS, LUNG	0.77	1.00	1.52	1.17
BREAST (FEMALE)	1.18	0.69*	0.62	1.06
THYROID	4.65	0.37	0.08	1.03
BONES & JOINTS	0.00	1.54	-	2.50
BLADDER	2.25	1.19	1.06	2.00
BRAIN & OTHER C.N.S.	1.34	1.32	0.66	0.68
BENIGN & UNSPEC NEOPLASMS	-	0.79	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.9

Age at death: under 10

Rocky Flats (1953)
Boulder, CO ; Jefferson, CO

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4	0.90	4	0.84	63	1.03	52	0.99
ALL CANCER, EXCL LEUK	3	0.65	5	1.00	49	0.71	66	1.11
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	2	3.10	1	1.45	7	0.83	16	2.20
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	2	0.58	7	2.32
STOMACH	0	0.00	0	0.00	1	10.32	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	1	0.42	7	3.42
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	2	3.24	1	1.84
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	1	0.41	1	0.49
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	1	0.56	3	1.55	22	0.83	19	0.83
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	4	1.03	3	0.93

Table 1-A.9

Age at death: under 10

Rocky Flats (1953)
Boulder, CO ; Jefferson, CO

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.07	1.04	1.14	1.18
ALL CANCER, EXCL LEUK	0.65	0.64*	1.09	1.11
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	2.14	0.38*	0.27	1.52
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	0.25	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	0.12*	-	-
TRACHEA, BRONCHUS, LUNG	-	1.76	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	0.84	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.36	1.00	1.48	0.54
BENIGN & UNSPEC NEOPLASMS	-	1.11	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.9

Age at death: 10 to 19

Rocky Flats (1953)
Boulder, CO ; Jefferson, CO

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	0	0.00	4	2.06	45	1.05	26	0.74
ALL CANCER, EXCL LEUK	1	0.29	3	0.79	76	0.96	59	0.91
HODGKIN'S DISEASE	0	0.00	0	0.00	4	0.59	6	1.05
OTHER LYMPHOMA	0	0.00	0	0.00	13	1.11	12	1.25
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	2	0.58	1	0.34
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	1	0.99
LIVER (PRIMARY)	0	0.00	0	0.00	2	1.41	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	1.48	2	2.73	22	1.51	11	0.91
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	0	0.00	16	0.80	12	0.74
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	5	1.65	1	0.42

Table 1-A.9

Age at death: 10 to 19

Rocky Flats (1953)
Boulder, CO ; Jefferson, CO

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.00	1.42	-	0.36
ALL CANCER, EXCL LEUK	0.37	1.05	3.31	1.15
HODGKIN'S DISEASE	-	0.56	-	-
OTHER LYMPHOMA	-	0.89	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	1.71	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	0.00	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.54	1.66	1.02	0.33
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	1.08	-	-
BENIGN & UNSPEC NEOPLASMS	-	3.93	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.9

Age at death: 20 to 39

Rocky Flats (1953)
Boulder, CO ; Jefferson, CO

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3	0.89	3	0.88	62	0.81	58	0.94
ALL CANCER, EXCL LEUK	25	0.85	37	1.21	506	0.83	346	0.72
HODGKIN'S DISEASE	2	0.75	8	3.01	50	0.99	28	0.68
OTHER LYMPHOMA	2	1.26	0	0.00	43	1.09	24	0.77
MULTIPLE MYELOMA	0	0.00	0	0.00	2	0.80	0	0.00
DIGESTIVE ORGANS	5	0.91	4	0.69	74	0.82	50	0.70
STOMACH	1	0.81	1	0.76	14	0.89	11	0.86
COLON & RECTUM	2	0.71	2	0.68	35	0.78	20	0.57
LIVER (PRIMARY)	1	1.80	1	1.69	9	1.01	9	1.20
TRACHEA, BRONCHUS, LUNG	0	0.00	1	0.61	28	0.51	19	0.46
BREAST (FEMALE)	5	1.32	2	0.49	68	0.77	52	0.77
THYROID	0	0.00	0	0.00	0	0.00	2	1.45
BONES & JOINTS	0	0.00	2	3.10	13	1.08	11	1.04
BLADDER	0	0.00	0	0.00	5	2.43	2	1.25
BRAIN & OTHER C.N.S.	2	0.76	3	1.12	59	1.00	27	0.59
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	5	0.52	7	0.96

Table 1-A.9

Age at death: 20 to 39

Rocky Flats (1953)
Boulder, CO ; Jefferson, CO

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.01	0.86	0.91	1.07
ALL CANCER, EXCL LEUK	0.70	1.15	0.98	0.60**
HODGKIN'S DISEASE	0.25	1.46	1.32	0.23**
OTHER LYMPHOMA	-	1.42	0.87	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.32	1.17	0.90	1.01
STOMACH	1.07	1.03	1.10	1.13
COLON & RECTUM	1.04	1.37	1.10	0.84
LIVER (PRIMARY)	1.07	0.84	0.56	0.71
TRACHEA, BRONCHUS, LUNG	0.00	1.11	-	0.75
BREAST (FEMALE)	2.69	1.00	0.58	1.57
THYROID	-	0.00	-	-
BONES & JOINTS	0.00	1.04	-	0.34
BLADDER	-	1.94	-	-
BRAIN & OTHER C.N.S.	0.68	1.69*	1.32	0.53
BENIGN & UNSPEC NEOPLASMS	-	0.54	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.9

Age at death: 40 to 59

Rocky Flats (1953)
Boulder, CO ; Jefferson, CO

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	6	0.94	6	0.82	109	0.87	100	0.99
ALL CANCER, EXCL LEUK	152	0.93	172	0.90	3007	0.81	2427	0.80
HODGKIN'S DISEASE	2	0.80	2	0.71	32	0.81	36	1.13
OTHER LYMPHOMA	8	1.81	5	0.99	159	1.31	81	0.84
MULTIPLE MYELOMA	4	2.70	2	1.16	44	1.04	37	1.06
DIGESTIVE ORGANS	47	0.91	51	0.85	681	0.80	566	0.80
STOMACH	9	0.73	18	1.24	89	0.69	103	0.94
COLON & RECTUM	16	0.73	18	0.71	352	0.91	236	0.75
LIVER (PRIMARY)	7	1.10	1	0.13	31	0.50	46	0.86
TRACHEA, BRONCHUS, LUNG	14	0.62	27	1.05	639	0.65	561	0.72
BREAST (FEMALE)	23	1.03	23	0.88	499	0.95	370	0.86
THYROID	2	2.80	1	1.20	5	0.53	6	0.77
BONES & JOINTS	2	1.46	1	0.63	13	0.88	9	0.73
BLADDER	0	0.00	8	2.16	28	0.62	27	0.73
BRAIN & OTHER C.N.S.	3	0.49	7	1.01	152	1.05	98	0.85
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	28	1.21	20	1.14

Table 1-A.9

Age at death: 40 to 59

Rocky Flats (1953)
Boulder, CO ; Jefferson, CO

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.15	0.88	0.93	1.21
ALL CANCER, EXCL LEUK	1.03	1.01	0.87	0.89
HODGKIN'S DISEASE	1.13	0.72	1.01	1.59
OTHER LYMPHOMA	1.83	1.56**	0.72	0.85
MULTIPLE MYELOMA	2.33	0.98	0.39	0.91
DIGESTIVE ORGANS	1.07	1.00	0.88	0.94
STOMACH	0.59	0.73*	0.95	0.76
COLON & RECTUM	1.03	1.21*	1.25	1.06
LIVER (PRIMARY)	8.46*	0.58*	0.45	6.62*
TRACHEA, BRONCHUS, LUNG	0.59	0.90	1.05	0.69
BREAST (FEMALE)	1.17	1.10	0.92	0.98
THYROID	2.33	0.69	0.19	0.64
BONES & JOINTS	2.32	1.21	0.60	1.16
BLADDER	0.00*	0.85	-	0.34*
BRAIN & OTHER C.N.S.	0.49	1.24	2.14	0.84
BENIGN & UNSPEC NEOPLASMS	-	1.06	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.9

Age at death: 60 plus

Rocky Flats (1953)
Boulder, CO ; Jefferson, CO

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	10	0.79	14	0.81	305	0.98	297	0.98
ALL CANCER, EXCL LEUK	345	0.89	472	0.88	7226	0.90	6632	0.85
HODGKIN'S DISEASE	2	0.81	1	0.30	37	0.99	28	0.76
OTHER LYMPHOMA	11	1.65	11	1.22	248	1.06	233	1.05
MULTIPLE MYELOMA	1	0.39	7	2.01	127	1.06	132	1.15
DIGESTIVE ORGANS	140	0.80	213	0.88	2352	0.87	2204	0.83
STOMACH	46	0.92	77	1.11	363	0.83	309	0.69
COLON & RECTUM	55	0.77	71	0.72	1146	0.87	1064	0.83
LIVER (PRIMARY)	16	0.74	25	0.84	145	0.76	162	0.82
TRACHEA, BRONCHUS, LUNG	32	0.91	31	0.67	1296	0.76	1197	0.75
BREAST (FEMALE)	32	1.10	27	0.66	693	1.09	531	0.88
THYROID	3	1.65	3	1.20	28	1.05	35	1.33
BONES & JOINTS	2	0.63	3	0.70	17	0.58	22	0.74
BLADDER	13	0.84	19	0.89	227	0.85	227	0.86
BRAIN & OTHER C.N.S.	4	1.35	10	2.59	152	1.13	112	0.91
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	38	0.90	41	1.07

Table 1-A.9

Age at death: 60 plus

Rocky Flats (1953)
Boulder, CO ; Jefferson, CO

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.98	1.00	1.24	1.21
ALL CANCER, EXCL LEUK	1.01	1.06**	1.01	0.97
HODGKIN'S DISEASE	2.70	1.30	1.22	2.53
OTHER LYMPHOMA	1.35	1.01	0.64	0.86
MULTIPLE MYELOMA	0.19	0.92	2.72	0.57
DIGESTIVE ORGANS	0.91	1.05	1.09	0.94
STOMACH	0.83	1.20*	0.90	0.62***
COLON & RECTUM	1.07	1.05	1.13	1.15
LIVER (PRIMARY)	0.88	0.93	1.03	0.98
TRACHEA, BRONCHUS, LUNG	1.36	1.01	0.84	1.12
BREAST (FEMALE)	1.67	1.24***	0.99	1.33
THYROID	1.38	0.79	0.64	1.11
BONES & JOINTS	0.90	0.78	0.92	1.06
BLADDER	0.94	0.99	1.01	0.97
BRAIN & OTHER C.N.S.	0.52	1.24	0.84	0.35**
BENIGN & UNSPEC NEOPLASMS	-	0.84	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.9

Age at death: all

Rocky Flats (1953)
Boulder, CO ; Jefferson, CO

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	23	0.80	31	0.89	584	0.94	533	0.96
ALL CANCER, EXCL LEUK	526	0.89	689	0.90	10864	0.87	9530	0.83
HODGKIN'S DISEASE	6	0.74	11	1.18	123	0.91	98	0.84
OTHER LYMPHOMA	23	1.67	17	1.01	470	1.13	366	1.00
MULTIPLE MYELOMA	5	1.19	9	1.69	173	1.05	169	1.11
DIGESTIVE ORGANS	192	0.82	268	0.87	3111	0.85	2828	0.82
STOMACH	56	0.88	96	1.13	467	0.80	423	0.74
COLON & RECTUM	73	0.76	91	0.71	1533	0.88	1321	0.81
LIVER (PRIMARY)	24	0.84	27	0.71	188	0.71	224	0.86
TRACHEA, BRONCHUS, LUNG	46	0.78	59	0.80	1965	0.72	1778	0.74
BREAST (FEMALE)	60	1.09	52	0.73	1260	1.01	953	0.86
THYROID	5	1.89	4	1.15	33	0.87	43	1.21
BONES & JOINTS	5	0.83	8	1.07	66	0.90	54	0.81
BLADDER	13	0.69	27	1.07	260	0.82	256	0.84
BRAIN & OTHER C.N.S.	10	0.70	23	1.41	401	1.04	268	0.83
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	80	0.98	72	1.05

Table 1-A.9

Age at death: all

Rocky Flats (1953)
Boulder, CO ; Jefferson, CO

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.90	0.98	1.18	1.08
ALL CANCER, EXCL LEUK	0.99	1.05**	0.98	0.92
HODGKIN'S DISEASE	0.63	1.08	1.23	0.71
OTHER LYMPHOMA	1.65	1.13	0.68	0.99
MULTIPLE MYELOMA	0.70	0.95	0.88	0.66
DIGESTIVE ORGANS	0.94	1.04	1.04	0.94
STOMACH	0.78	1.08	0.91	0.65***
COLON & RECTUM	1.07	1.09*	1.16	1.14
LIVER (PRIMARY)	1.18	0.83	0.85	1.21
TRACHEA, BRONCHUS, LUNG	0.98	0.97	0.92	0.93
BREAST (FEMALE)	1.49*	1.17***	0.93	1.18
THYROID	1.64	0.72	0.46	1.05
BONES & JOINTS	0.78	1.11	1.08	0.76
BLADDER	0.64	0.98	1.19	0.79
BRAIN & OTHER C.N.S.	0.50	1.25**	1.49	0.59*
BENIGN & UNSPEC NEOPLASMS	-	0.93	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.10

Age at death: under 10

Nuclear Fuel Services (1966)
Cattaraugus, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	17	1.36	25	0.82	8	1.18	13	0.76
ALL CANCER, EXCL LEUK	17	1.33	26	0.83	14	1.74	13	0.65
HODGKIN'S DISEASE	0	0.00	1	1.95	0	0.00	0	0.00
OTHER LYMPHOMA	3	1.67	5	1.14	1	1.10	3	1.31
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	2	2.94	2	1.21	0	0.00	0	0.00
STOMACH	1	31.36	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	1	5.23	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	1	3.95	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	2.14	0	0.00	0	0.00	0	0.00
BLADDER	0	0.00	1	5.21	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	7	1.34	9	0.70	2	0.68	6	0.81
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	0	0.00

Table 1-A.10

Age at death: under 10

Nuclear Fuel Services (1966)
Cattaraugus, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.66	1.55	0.87	0.93
ALL CANCER, EXCL LEUK	1.60	2.68*	1.31	0.78
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	1.46	0.84	0.66	1.15
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	2.43	-	0.00	0.00
STOMACH	-	-	0.00	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	-	0.00	-
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	1.91	0.84	0.51	1.16
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.10

Age at death: 10 to 19

Nuclear Fuel Services (1966)
Cattaraugus, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3	0.56	19	1.48	8	1.42	12	0.84
ALL CANCER, EXCL LEUK	10	0.98	23	0.95	11	1.07	23	0.88
HODGKIN'S DISEASE	1	0.89	2	0.75	0	0.00	1	0.49
OTHER LYMPHOMA	1	0.67	3	0.84	1	0.66	3	0.78
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	2	1.76
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	1	2.05
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	2	19.76	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	4	2.10	6	1.33	4	2.10	2	0.41
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	4	1.56	7	1.14	2	0.77	7	1.06
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	1.79	2	1.41

Table 1-A.10

Age at death: 10 to 19

Nuclear Fuel Services (1966)
Cattaraugus, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.38	1.69	2.54	0.57
ALL CANCER, EXCL LEUK	1.03	1.22	1.09	0.93
HODGKIN'S DISEASE	1.19	0.00	0.00	0.65
OTHER LYMPHOMA	0.80	0.85	0.99	0.93
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	0.00	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	0.00	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.58	5.12	1.00	0.31
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.37	0.73	0.49	0.93
BENIGN & UNSPEC NEOPLASMS	-	1.27	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.10

Age at death: 20 to 39

Nuclear Fuel Services (1966)
Cattaraugus, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3	0.40	24	1.32	12	1.61	17	0.86
ALL CANCER, EXCL LEUK	73	1.10	166	1.02	64	1.11	175	1.14
HODGKIN'S DISEASE	7	1.13	20	1.34	5	1.07	14	1.13
OTHER LYMPHOMA	3	0.82	9	1.01	1	0.26	15	1.49
MULTIPLE MYELOMA	0	0.00	1	1.45	0	0.00	1	1.62
DIGESTIVE ORGANS	17	1.47	34	1.21	12	1.46	26	1.18
STOMACH	3	1.23	4	0.67	1	0.74	3	0.83
COLON & RECTUM	13	2.25	19	1.35	5	1.23	13	1.20
LIVER (PRIMARY)	0	0.00	1	0.36	2	2.46	4	1.87
TRACHEA, BRONCHUS, LUNG	2	0.44	10	0.88	4	0.75	25	1.73
BREAST (FEMALE)	12	1.32	22	0.98	14	1.64	17	0.75
THYROID	1	4.41	0	0.00	0	0.00	0	0.00
BONES & JOINTS	2	1.56	1	0.33	0	0.00	3	0.97
BLADDER	0	0.00	0	0.00	0	0.00	1	2.03
BRAIN & OTHER C.N.S.	4	0.67	8	0.55	4	0.71	14	0.94
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	4	1.22

Table 1-A.10

Age at death: 20 to 39

Nuclear Fuel Services (1966)
Cattaraugus, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.30*	1.87	4.03*	0.65
ALL CANCER, EXCL LEUK	1.08	0.97	1.01	1.12
HODGKIN'S DISEASE	0.84	0.95	0.95	0.84
OTHER LYMPHOMA	0.81	0.17	0.32	1.48
MULTIPLE MYELOMA	0.00	0.00	-	1.12
DIGESTIVE ORGANS	1.21	1.24	0.99	0.98
STOMACH	1.84	0.89	0.60	1.24
COLON & RECTUM	1.67	1.03	0.55	0.89
LIVER (PRIMARY)	0.00	1.32	-	5.19
TRACHEA, BRONCHUS, LUNG	0.50	0.43	1.70	1.97
BREAST (FEMALE)	1.35	2.19	1.24	0.77
THYROID	-	-	0.00	-
BONES & JOINTS	4.73	0.00	0.00	2.94
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	1.22	0.76	1.06	1.71
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-A.10

Age at death: 40 to 59

Nuclear Fuel Services (1966)
Cattaraugus, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	21	1.09	37	0.79	22	1.21	40	0.85
ALL CANCER, EXCL LEUK	541	1.04	1200	0.96	583	1.01	1496	1.01
HODGKIN'S DISEASE	7	0.91	14	0.75	6	1.17	10	0.76
OTHER LYMPHOMA	21	1.35	45	1.19	20	1.08	46	0.96
MULTIPLE MYELOMA	6	1.09	9	0.67	6	0.89	13	0.75
DIGESTIVE ORGANS	151	1.02	358	1.00	142	1.11	343	1.04
STOMACH	20	0.65	81	1.09	21	1.19	46	1.02
COLON & RECTUM	78	1.22	179	1.16	84	1.44	165	1.10
LIVER (PRIMARY)	17	1.01	34	0.84	6	0.77	21	1.06
TRACHEA, BRONCHUS, LUNG	74	0.82	205	0.92	145	0.89	452	1.08
BREAST (FEMALE)	93	1.30	176	1.03	93	1.15	214	1.04
THYROID	1	0.52	3	0.65	2	1.52	5	1.48
BONES & JOINTS	1	0.29	6	0.72	0	0.00	3	0.59
BLADDER	5	0.57	19	0.89	6	0.89	20	1.15
BRAIN & OTHER C.N.S.	19	0.97	38	0.80	21	0.98	54	0.97
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	4	0.84	16	1.32

Table 1-A.10

Age at death: 40 to 59

Nuclear Fuel Services (1966)
Cattaraugus, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.38	1.42	1.11	1.08
ALL CANCER, EXCL LEUK	1.08	1.00	0.97	1.05
HODGKIN'S DISEASE	1.21	1.54	1.29	1.01
OTHER LYMPHOMA	1.13	1.13	0.80	0.81
MULTIPLE MYELOMA	1.63	1.19	0.82	1.12
DIGESTIVE ORGANS	1.02	1.07	1.09	1.04
STOMACH	0.60*	1.17	1.83	0.94
COLON & RECTUM	1.05	1.31	1.18	0.95
LIVER (PRIMARY)	1.20	0.73	0.76	1.26
TRACHEA, BRONCHUS, LUNG	0.89	0.82*	1.09	1.17
BREAST (FEMALE)	1.26	1.11	0.88	1.01
THYROID	0.80	1.03	2.92	2.28
BONES & JOINTS	0.40	0.00	0.00	0.82
BLADDER	0.64	0.77	1.56	1.29
BRAIN & OTHER C.N.S.	1.21	1.01	1.01	1.21
BENIGN & UNSPEC NEOPLASMS	-	0.64	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.10

Age at death: 60 plus

Nuclear Fuel Services (1966)
Cattaraugus, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	57	0.96	122	0.85	75	0.92	235	1.19
ALL CANCER, EXCL LEUK	1580	1.00	3699	0.97	2237	1.08	5012	1.00
HODGKIN'S DISEASE	11	1.09	35	1.43	6	0.68	18	0.85
OTHER LYMPHOMA	39	1.13	79	0.94	55	0.87	169	1.11
MULTIPLE MYELOMA	14	0.89	41	1.08	46	1.37	83	1.03
DIGESTIVE ORGANS	635	0.96	1499	0.94	738	1.11	1627	1.01
STOMACH	169	1.06	294	0.76	109	1.15	181	0.79
COLON & RECTUM	298	1.04	739	1.07	398	1.20	883	1.10
LIVER (PRIMARY)	45	0.60	173	0.95	29	0.80	75	0.86
TRACHEA, BRONCHUS, LUNG	171	0.86	451	0.91	517	1.09	1175	1.01
BREAST (FEMALE)	131	1.13	312	1.13	181	1.14	412	1.10
THYROID	5	0.72	22	1.33	3	0.48	14	0.93
BONES & JOINTS	15	1.51	24	0.99	6	0.91	14	0.88
BLADDER	62	1.00	177	1.18	82	1.19	198	1.18
BRAIN & OTHER C.N.S.	17	1.16	27	0.75	22	0.60	66	0.74
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	13	0.89	46	1.31

Table 1-A.10

Age at death: 60 plus

Nuclear Fuel Services (1966)
Cattaraugus, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.13	0.77	0.96	1.40**
ALL CANCER, EXCL LEUK	1.03	1.08**	1.08*	1.03
HODGKIN'S DISEASE	0.76	0.80	0.62	0.59
OTHER LYMPHOMA	1.20	0.78	0.77	1.18
MULTIPLE MYELOMA	0.82	1.33	1.54	0.95
DIGESTIVE ORGANS	1.02	1.10*	1.16*	1.07*
STOMACH	1.39***	1.46**	1.08	1.04
COLON & RECTUM	0.97	1.09	1.15	1.03
LIVER (PRIMARY)	0.63**	0.93	1.33	0.91
TRACHEA, BRONCHUS, LUNG	0.95	1.08	1.27**	1.11
BREAST (FEMALE)	1.00	1.04	1.01	0.97
THYROID	0.54	0.52	0.67	0.70
BONES & JOINTS	1.53	1.03	0.60	0.89
BLADDER	0.85	1.01	1.19	1.00
BRAIN & OTHER C.N.S.	1.55	0.81	0.52	0.99
BENIGN & UNSPEC NEOPLASMS	-	0.68	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-A.10

Age at death: all

Nuclear Fuel Services (1966)
Cattaraugus, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	101	0.97	227	0.90	125	1.04	317	1.07
ALL CANCER, EXCL LEUK	2221	1.02	5114	0.97	2909	1.06	6719	1.00
HODGKIN'S DISEASE	26	1.03	72	1.18	17	0.88	43	0.88
OTHER LYMPHOMA	67	1.18	141	1.02	78	0.89	236	1.09
MULTIPLE MYELOMA	20	0.93	51	0.98	52	1.28	97	0.98
DIGESTIVE ORGANS	805	0.98	1893	0.95	892	1.11	1998	1.02
STOMACH	193	1.01	379	0.81	131	1.15	230	0.83
COLON & RECTUM	389	1.09	938	1.09	487	1.23	1061	1.10
LIVER (PRIMARY)	62	0.66	208	0.92	37	0.82	101	0.91
TRACHEA, BRONCHUS, LUNG	247	0.84	667	0.92	668	1.04	1652	1.04
BREAST (FEMALE)	236	1.20	510	1.09	288	1.16	643	1.06
THYROID	7	0.77	25	1.14	5	0.64	19	1.01
BONES & JOINTS	23	1.35	37	0.90	10	0.84	22	0.74
BLADDER	67	0.95	197	1.14	88	1.16	219	1.18
BRAIN & OTHER C.N.S.	51	1.06	89	0.76	51	0.74	147	0.85
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	18	0.82	68	1.27

Table 1-A.10

Age at death: all

Nuclear Fuel Services (1966)
Cattaraugus, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.08	0.97	1.07	1.19*
ALL CANCER, EXCL LEUK	1.05*	1.06**	1.04	1.03
HODGKIN'S DISEASE	0.87	1.00	0.85	0.75
OTHER LYMPHOMA	1.16	0.82	0.75	1.07
MULTIPLE MYELOMA	0.95	1.31	1.38	1.00
DIGESTIVE ORGANS	1.03	1.09*	1.13*	1.07*
STOMACH	1.25*	1.39**	1.14	1.02
COLON & RECTUM	1.00	1.12*	1.13	1.01
LIVER (PRIMARY)	0.72*	0.90	1.24	0.99
TRACHEA, BRONCHUS, LUNG	0.91	1.00	1.24**	1.13**
BREAST (FEMALE)	1.10	1.09	0.97	0.97
THYROID	0.68	0.63	0.83	0.89
BONES & JOINTS	1.50	1.14	0.62	0.82
BLADDER	0.83	0.98	1.22	1.04
BRAIN & OTHER C.N.S.	1.39	0.87	0.70	1.12
BENIGN & UNSPEC NEOPLASMS	-	0.65	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.1

Age at death: under 10

Shippingport/Beaver Valley 1 (1957)
Beaver, PA ; Hancock, WV

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	15	0.91	62	1.04	41	1.09	121	0.88
ALL CANCER, EXCL LEUK	17	0.97	63	1.01	41	1.00	157	1.05
HODGKIN'S DISEASE	0	0.00	1	0.84	3	6.06	2	1.14
OTHER LYMPHOMA	1	0.41	8	0.91	7	1.35	15	0.80
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	6	1.72	1	0.49	8	1.08
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	2	4.18	1	5.64	0	0.00
LIVER (PRIMARY)	0	0.00	4	2.27	0	0.00	8	1.58
TRACHEA, BRONCHUS, LUNG	1	6.16	0	0.00	0	0.00	1	0.79
BREAST (FEMALE)	0	0.00	2	18.41	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	1	10.59
BONES & JOINTS	0	0.00	2	0.84	3	2.08	7	1.33
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	7	1.01	16	0.65	19	1.17	66	1.13
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	5	2.62	6	0.82

Table 1-B.1

Age at death: under 10

Shippingport/Beaver Valley 1 (1957)
Beaver, PA ; Hancock, WV

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.88	1.24	1.20	0.85
ALL CANCER, EXCL LEUK	0.96	0.95	1.03	1.04
HODGKIN'S DISEASE	0.00	5.32	-	1.36
OTHER LYMPHOMA	0.45	1.69	3.29	0.88
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	0.45	-	0.63
STOMACH	-	-	-	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	0.00	0.00	-	0.70
TRACHEA, BRONCHUS, LUNG	-	0.00	0.00	-
BREAST (FEMALE)	0.00	-	-	0.00
THYROID	-	0.00	-	-
BONES & JOINTS	0.00	1.56	-	1.58
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.55	1.04	1.16	1.74
BENIGN & UNSPEC NEOPLASMS	-	3.20	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.1

Age at death: 10 to 19

Shippingport/Beaver Valley 1 (1957)
Beaver, PA ; Hancock, WV

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	6	0.94	25	1.08	24	0.99	80	0.90
ALL CANCER, EXCL LEUK	15	1.23	33	0.75	44	0.98	178	1.08
HODGKIN'S DISEASE	4	3.07	7	1.48	4	0.99	13	0.87
OTHER LYMPHOMA	3	1.79	9	1.48	6	0.90	30	1.22
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	1.38	1	0.39	1	0.49	11	1.52
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	1	0.84	0	0.00	4	1.71
LIVER (PRIMARY)	1	5.59	0	0.00	1	1.24	5	1.70
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	1	2.30	2	1.25
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	1	7.49	0	0.00	2	5.20
BONES & JOINTS	1	0.43	3	0.36	6	0.72	35	1.15
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	1	0.33	7	0.64	13	1.14	36	0.86
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	0.63	11	1.92

Table 1-B.1

Age at death: 10 to 19

Shippingport/Beaver Valley 1 (1957)
Beaver, PA ; Hancock, WV

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.87	1.10	1.05	0.83
ALL CANCER, EXCL LEUK	1.64	0.91	0.80	1.44
HODGKIN'S DISEASE	2.07	1.14	0.32	0.59
OTHER LYMPHOMA	1.21	0.74	0.50	0.82
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	3.54	0.32	0.36	3.90
STOMACH	-	-	-	-
COLON & RECTUM	0.00	0.00	-	2.04
LIVER (PRIMARY)	-	0.73	0.22	-
TRACHEA, BRONCHUS, LUNG	-	1.84	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	0.00	0.00	-	0.69
BONES & JOINTS	1.19	0.63	1.67	3.19*
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.52	1.33	3.45	1.34
BENIGN & UNSPEC NEOPLASMS	-	0.33	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.1

Age at death: 20 to 39

Shippingport/Beaver Valley 1 (1957)
Beaver, PA ; Hancock, WV

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	11	0.89	41	0.94	41	1.19	116	0.91
ALL CANCER, EXCL LEUK	110	0.98	436	1.12	287	0.98	1097	1.04
HODGKIN'S DISEASE	13	1.34	36	1.05	23	0.95	111	1.25
OTHER LYMPHOMA	4	0.69	24	1.18	14	0.79	78	1.20
MULTIPLE MYELOMA	0	0.00	1	0.60	1	0.80	2	0.46
DIGESTIVE ORGANS	25	1.19	90	1.24	41	0.92	184	1.16
STOMACH	4	0.84	24	1.48	7	0.85	24	0.84
COLON & RECTUM	13	1.24	46	1.26	22	1.00	99	1.26
LIVER (PRIMARY)	3	1.39	10	1.37	4	0.90	17	1.09
TRACHEA, BRONCHUS, LUNG	6	0.90	26	1.12	29	1.12	78	0.84
BREAST (FEMALE)	14	0.92	56	1.05	46	1.06	158	1.02
THYROID	0	0.00	1	0.74	3	3.44	7	2.23
BONES & JOINTS	2	0.91	6	0.78	4	0.76	21	1.06
BLADDER	3	5.15	3	1.53	2	1.94	1	0.27
BRAIN & OTHER C.N.S.	11	1.12	46	1.33	17	0.64	95	0.97
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	2	0.54	15	1.08

Table 1-B.1

Age at death: 20 to 39

Shippingport/Beaver Valley 1 (1957)
Beaver, PA ; Hancock, WV

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.95	1.31	1.34	0.97
ALL CANCER, EXCL LEUK	0.88	0.94	1.00	0.93
HODGKIN'S DISEASE	1.28	0.76	0.71	1.19
OTHER LYMPHOMA	0.58	0.66	1.14	1.02
MULTIPLE MYELOMA	0.00	1.74	-	0.77
DIGESTIVE ORGANS	0.96	0.79	0.77	0.94
STOMACH	0.57	1.01	1.01	0.57
COLON & RECTUM	0.98	0.79	0.81	1.00
LIVER (PRIMARY)	1.01	0.83	0.65	0.80
TRACHEA, BRONCHUS, LUNG	0.80	1.33	1.24	0.75
BREAST (FEMALE)	0.88	1.04	1.15	0.97
THYROID	0.00	1.54	-	3.01
BONES & JOINTS	1.17	0.72	0.84	1.36
BLADDER	3.37	7.19	0.38	0.18
BRAIN & OTHER C.N.S.	0.84	0.66	0.57	0.73
BENIGN & UNSPEC NEOPLASMS	-	0.50	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.1

Age at death: 40 to 59

Shippingport/Beaver Valley 1 (1957)
Beaver, PA ; Hancock, WV

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	22	0.86	81	0.86	92	0.97	358	1.07
ALL CANCER, EXCL LEUK	773	1.14	2553	1.03	2984	1.02	10466	1.03
HODGKIN'S DISEASE	13	1.28	34	0.92	30	0.97	114	1.05
OTHER LYMPHOMA	23	1.23	88	1.29	92	1.00	327	1.00
MULTIPLE MYELOMA	5	0.74	23	0.94	34	0.99	113	0.96
DIGESTIVE ORGANS	271	1.30	823	1.09	741	1.07	2497	1.04
STOMACH	60	1.21	188	1.08	128	1.20	429	1.17
COLON & RECTUM	107	1.24	356	1.12	327	1.07	1142	1.06
LIVER (PRIMARY)	38	1.53	104	1.15	54	1.02	206	1.14
TRACHEA, BRONCHUS, LUNG	128	1.24	349	0.96	778	1.04	2498	0.96
BREAST (FEMALE)	81	0.93	310	0.92	424	1.04	1521	1.05
THYROID	4	1.44	10	0.97	5	0.67	27	1.03
BONES & JOINTS	6	1.13	21	1.09	6	0.51	47	1.14
BLADDER	12	0.93	60	1.31	38	1.03	135	1.05
BRAIN & OTHER C.N.S.	22	0.89	65	0.71	97	0.90	351	0.92
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	22	1.30	67	1.15

Table 1-B.1

Age at death: 40 to 59

Shippingport/Beaver Valley 1 (1957)
Beaver, PA ; Hancock, WV

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	0.91	1.13	1.24
ALL CANCER, EXCL LEUK	1.11*	0.99	0.89**	1.00
HODGKIN'S DISEASE	1.39	0.92	0.76	1.14
OTHER LYMPHOMA	0.95	1.00	0.81	0.78*
MULTIPLE MYELOMA	0.79	1.03	1.34	1.02
DIGESTIVE ORGANS	1.19*	1.03	0.82**	0.95
STOMACH	1.12	1.03	0.99	1.08
COLON & RECTUM	1.11	1.01	0.86	0.95
LIVER (PRIMARY)	1.33	0.89	0.67	0.99
TRACHEA, BRONCHUS, LUNG	1.29*	1.08	0.84	1.00
BREAST (FEMALE)	1.01	0.99	1.12	1.14*
THYROID	1.48	0.65	0.47	1.06
BONES & JOINTS	1.04	0.45	0.45	1.05
BLADDER	0.71	0.98	1.11	0.80
BRAIN & OTHER C.N.S.	1.25	0.98	1.01	1.30
BENIGN & UNSPEC NEOPLASMS	-	1.13	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.1

Age at death: 60 plus

Shippingport/Beaver Valley 1 (1957)
Beaver, PA ; Hancock, WV

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	41	0.85	197	0.93	294	1.03	1074	0.94
ALL CANCER, EXCL LEUK	1641	1.19	6495	1.07	8188	1.10	30706	1.04
HODGKIN'S DISEASE	11	1.18	26	0.65	42	1.17	145	1.02
OTHER LYMPHOMA	32	1.19	129	1.12	196	0.92	855	1.01
MULTIPLE MYELOMA	17	1.45	49	0.99	123	1.08	444	1.01
DIGESTIVE ORGANS	776	1.30	3040	1.14	2891	1.16	10746	1.08
STOMACH	239	1.46	876	1.21	523	1.27	1862	1.14
COLON & RECTUM	315	1.29	1217	1.11	1371	1.15	5077	1.06
LIVER (PRIMARY)	84	1.17	375	1.17	226	1.26	837	1.17
TRACHEA, BRONCHUS, LUNG	191	1.21	598	0.93	1739	1.07	6262	1.01
BREAST (FEMALE)	88	0.94	403	0.93	521	0.96	2194	0.99
THYROID	7	1.13	36	1.29	27	1.14	101	1.05
BONES & JOINTS	18	1.73	58	1.27	31	1.13	107	0.98
BLADDER	63	1.16	275	1.14	292	1.17	1063	1.07
BRAIN & OTHER C.N.S.	12	0.94	36	0.69	102	0.83	385	0.81
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	42	1.11	177	1.19

Table 1-B.1

Age at death: 60 plus

Shippingport/Beaver Valley 1 (1957)
Beaver, PA ; Hancock, WV

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.91	1.10	1.21	1.01
ALL CANCER, EXCL LEUK	1.11***	1.06***	0.92**	0.97
HODGKIN'S DISEASE	1.82	1.15	0.99	1.57*
OTHER LYMPHOMA	1.06	0.91	0.77	0.90
MULTIPLE MYELOMA	1.46	1.07	0.74	1.02
DIGESTIVE ORGANS	1.14**	1.07**	0.89**	0.95**
STOMACH	1.21*	1.11*	0.87	0.94
COLON & RECTUM	1.16*	1.08**	0.89	0.95
LIVER (PRIMARY)	1.00	1.08	1.08	1.00
TRACHEA, BRONCHUS, LUNG	1.30**	1.06	0.88	1.09*
BREAST (FEMALE)	1.01	0.97	1.02	1.06
THYROID	0.88	1.09	1.01	0.81
BONES & JOINTS	1.36	1.15	0.65	0.77
BLADDER	1.02	1.09	1.01	0.94
BRAIN & OTHER C.N.S.	1.36	1.02	0.88	1.17
BENIGN & UNSPEC NEOPLASMS	-	0.93	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.1

Age at death: all

Shippingport/Beaver Valley 1 (1957)
Beaver, PA ; Hancock, WV

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	95	0.87	406	0.94	492	1.03	1749	0.95
ALL CANCER, EXCL LEUK	2556	1.16	9580	1.06	11544	1.07	42604	1.04
HODGKIN'S DISEASE	41	1.33	104	0.89	102	1.07	385	1.08
OTHER LYMPHOMA	63	1.14	258	1.18	315	0.94	1305	1.02
MULTIPLE MYELOMA	22	1.16	73	0.97	158	1.06	559	0.99
DIGESTIVE ORGANS	1073	1.29	3960	1.13	3675	1.14	13446	1.07
STOMACH	303	1.38	1088	1.19	658	1.25	2315	1.14
COLON & RECTUM	435	1.27	1622	1.11	1721	1.13	6322	1.06
LIVER (PRIMARY)	126	1.27	493	1.17	285	1.20	1073	1.17
TRACHEA, BRONCHUS, LUNG	326	1.22	973	0.94	2547	1.06	8841	0.99
BREAST (FEMALE)	183	0.94	771	0.93	991	1.00	3873	1.01
THYROID	11	1.17	48	1.21	35	1.08	138	1.09
BONES & JOINTS	27	1.29	90	1.08	50	0.92	217	1.05
BLADDER	78	1.15	338	1.17	332	1.15	1199	1.06
BRAIN & OTHER C.N.S.	53	0.93	170	0.80	248	0.87	933	0.88
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	72	1.16	276	1.18

Table 1-B.1

Age at death: all

Shippingport/Beaver Valley 1 (1957)
Beaver, PA ; Hancock, WV

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.93	1.08	1.18	1.01
ALL CANCER, EXCL LEUK	1.09***	1.03**	0.92***	0.98
HODGKIN'S DISEASE	1.49*	0.99	0.80	1.21
OTHER LYMPHOMA	0.97	0.92	0.82	0.86*
MULTIPLE MYELOMA	1.20	1.07	0.91	1.02
DIGESTIVE ORGANS	1.14***	1.07**	0.88***	0.95**
STOMACH	1.16*	1.10*	0.91	0.96
COLON & RECTUM	1.14*	1.07*	0.89*	0.95
LIVER (PRIMARY)	1.09	1.03	0.94	1.00
TRACHEA, BRONCHUS, LUNG	1.30***	1.07**	0.87*	1.05
BREAST (FEMALE)	1.01	0.99	1.06	1.09
THYROID	0.97	0.99	0.92	0.90
BONES & JOINTS	1.19	0.88	0.71	0.97
BLADDER	0.98	1.08	1.00	0.91
BRAIN & OTHER C.N.S.	1.16	0.99	0.94	1.10
BENIGN & UNSPEC NEOPLASMS	-	0.98	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.2

Age at death: under 10

Dresden 1,2,3 (1960)
Grundy, IL ; Will, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	19	0.98	55	1.23	32	0.81	78	1.01
ALL CANCER, EXCL LEUK	22	1.08	44	0.95	60	1.30	109	1.25
HODGKIN'S DISEASE	1	2.77	1	1.22	0	0.00	1	1.07
OTHER LYMPHOMA	3	1.05	4	0.61	11	2.03	9	0.86
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	2	1.79	2	0.80	3	1.30	8	1.85
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	6.77	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	1	1.71	1	0.75	3	1.83	5	1.63
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	4	2.33	3	1.91	1	0.33
BLADDER	1	7.56	1	3.29	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	12	1.46	15	0.80	24	1.37	44	1.32
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	4	1.30	5	0.93

Table 1-B.2

Age at death: under 10

Dresden 1,2,3 (1960)
Grundy, IL ; Will, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.80	0.80	0.83	0.82
ALL CANCER, EXCL LEUK	1.14	1.04	1.20	1.32
HODGKIN'S DISEASE	2.27	0.00	0.00	0.88
OTHER LYMPHOMA	1.72	2.36	1.93	1.41
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	2.24	0.70	0.73	2.31
STOMACH	-	-	-	-
COLON & RECTUM	-	-	0.00	-
LIVER (PRIMARY)	2.28	1.12	1.07	2.17
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	5.79	-	0.14
BLADDER	2.30	-	0.00	0.00
BRAIN & OTHER C.N.S.	1.83	1.04	0.94	1.65
BENIGN & UNSPEC NEOPLASMS	-	1.40	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.2

Age at death: 10 to 19

Dresden 1,2,3 (1960)
Grundy, IL ; Will, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	10	1.44	18	1.11	17	0.65	57	1.09
ALL CANCER, EXCL LEUK	15	1.14	31	1.02	45	0.93	98	1.02
HODGKIN'S DISEASE	1	0.71	1	0.30	3	0.75	9	1.10
OTHER LYMPHOMA	2	1.07	5	1.15	4	0.56	16	1.12
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	2	1.23	0	0.00	5	1.19
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	1	0.75
LIVER (PRIMARY)	0	0.00	1	2.24	0	0.00	4	2.28
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	1	2.19	2	2.20
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	4	1.62	7	1.22	14	1.59	18	1.02
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	4	1.20	5	0.65	8	0.65	29	1.19
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	0.48	2	0.51

Table 1-B.2

Age at death: 10 to 19

Dresden 1,2,3 (1960)
Grundy, IL ; Will, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.30	0.60	0.45	0.98
ALL CANCER, EXCL LEUK	1.12	0.91	0.82	1.00
HODGKIN'S DISEASE	2.37	0.68	1.06	3.67
OTHER LYMPHOMA	0.93	0.50	0.52	0.97
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	0.00	-	0.97
STOMACH	-	-	-	-
COLON & RECTUM	-	0.00	-	-
LIVER (PRIMARY)	0.00	0.00	-	1.02
TRACHEA, BRONCHUS, LUNG	-	1.00	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.33	1.56	0.98	0.84
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.85	0.55	0.54	1.83
BENIGN & UNSPEC NEOPLASMS	-	0.94	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.2

Age at death: 20 to 39

Dresden 1,2,3 (1960)
Grundy, IL ; Will, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	9	0.66	19	0.68	38	0.89	79	1.01
ALL CANCER, EXCL LEUK	111	0.91	258	1.03	343	0.99	622	0.98
HODGKIN'S DISEASE	7	0.65	18	0.81	27	0.97	51	0.97
OTHER LYMPHOMA	6	0.92	20	1.51	22	0.99	44	1.09
MULTIPLE MYELOMA	1	1.79	0	0.00	1	0.65	3	1.14
DIGESTIVE ORGANS	26	1.13	61	1.34	49	0.91	96	1.03
STOMACH	3	0.58	12	1.20	7	0.73	13	0.81
COLON & RECTUM	16	1.43	26	1.14	22	0.85	47	1.02
LIVER (PRIMARY)	3	1.25	9	1.99	6	1.07	15	1.64
TRACHEA, BRONCHUS, LUNG	4	0.49	14	0.88	28	0.84	55	0.94
BREAST (FEMALE)	16	1.01	30	0.88	61	1.22	104	1.13
THYROID	0	0.00	1	1.16	2	2.03	2	1.10
BONES & JOINTS	4	1.73	5	1.05	8	1.25	12	1.00
BLADDER	1	1.62	0	0.00	2	1.67	2	0.94
BRAIN & OTHER C.N.S.	8	0.75	18	0.81	32	1.00	55	0.92
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	4	0.68	8	0.79

Table 1-B.2

Age at death: 20 to 39

Dresden 1,2,3 (1960)
Grundy, IL ; Will, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.97	0.88	1.35	1.49
ALL CANCER, EXCL LEUK	0.88	1.01	1.09	0.95
HODGKIN'S DISEASE	0.80	1.00	1.49	1.20
OTHER LYMPHOMA	0.61	0.91	1.08	0.72
MULTIPLE MYELOMA	-	0.57	0.36	-
DIGESTIVE ORGANS	0.84	0.88	0.81	0.77
STOMACH	0.48	0.90	1.26	0.68
COLON & RECTUM	1.25	0.83	0.59	0.89
LIVER (PRIMARY)	0.63	0.65	0.86	0.82
TRACHEA, BRONCHUS, LUNG	0.56	0.89	1.71	1.07
BREAST (FEMALE)	1.15	1.08	1.21	1.28
THYROID	0.00	1.85	-	0.95
BONES & JOINTS	1.65	1.25	0.72	0.95
BLADDER	-	1.78	1.03	-
BRAIN & OTHER C.N.S.	0.93	1.09	1.33	1.14
BENIGN & UNSPEC NEOPLASMS	-	0.86	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.2

Age at death: 40 to 59

Dresden 1,2,3 (1960)
Grundy, IL ; Will, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	27	0.91	59	0.91	92	1.14	181	1.08
ALL CANCER, EXCL LEUK	743	0.96	1548	0.91	2506	1.01	4861	0.95
HODGKIN'S DISEASE	13	1.10	24	0.93	22	0.88	46	0.88
OTHER LYMPHOMA	33	1.48	43	0.88	96	1.21	170	1.02
MULTIPLE MYELOMA	7	0.86	16	0.91	28	0.95	59	0.99
DIGESTIVE ORGANS	224	0.95	487	0.95	598	1.04	1163	0.99
STOMACH	57	1.07	105	0.93	81	0.95	161	0.93
COLON & RECTUM	92	0.94	217	0.99	297	1.18	547	1.03
LIVER (PRIMARY)	29	1.05	63	1.05	46	1.12	88	1.06
TRACHEA, BRONCHUS, LUNG	105	0.84	190	0.71	716	1.07	1212	0.88
BREAST (FEMALE)	93	0.91	233	0.99	349	1.05	725	1.01
THYROID	3	0.97	8	1.16	5	0.84	13	1.03
BONES & JOINTS	8	1.38	11	0.87	14	1.49	13	0.67
BLADDER	15	1.06	34	1.11	27	0.90	70	1.12
BRAIN & OTHER C.N.S.	31	1.06	52	0.80	65	0.70	185	0.95
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	13	0.80	30	0.91

Table 1-B.2

Age at death: 40 to 59

Dresden 1,2,3 (1960)
Grundy, IL ; Will, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	1.06	1.25	1.19
ALL CANCER, EXCL LEUK	1.05	1.06**	1.05	1.04
HODGKIN'S DISEASE	1.18	1.00	0.80	0.95
OTHER LYMPHOMA	1.68*	1.19	0.82	1.16
MULTIPLE MYELOMA	0.95	0.96	1.10	1.09
DIGESTIVE ORGANS	1.00	1.05	1.09	1.04
STOMACH	1.15	1.02	0.89	1.00
COLON & RECTUM	0.95	1.15	1.26	1.04
LIVER (PRIMARY)	1.00	1.06	1.07	1.01
TRACHEA, BRONCHUS, LUNG	1.18	1.22***	1.27*	1.24**
BREAST (FEMALE)	0.92	1.04	1.15	1.02
THYROID	0.84	0.82	0.87	0.89
BONES & JOINTS	1.59	2.22	1.08	0.77
BLADDER	0.95	0.80	0.85	1.01
BRAIN & OTHER C.N.S.	1.33	0.74*	0.66	1.19
BENIGN & UNSPEC NEOPLASMS	-	0.88	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.2

Age at death: 60 plus

Dresden 1,2,3 (1960)
Grundy, IL ; Will, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	60	0.95	187	1.16	228	0.96	610	1.03
ALL CANCER, EXCL LEUK	1826	1.04	4337	0.97	6188	1.01	15066	1.00
HODGKIN'S DISEASE	3	0.26	38	1.30	33	1.17	71	1.02
OTHER LYMPHOMA	36	1.02	89	0.99	187	1.04	457	1.03
MULTIPLE MYELOMA	9	0.57	37	0.94	74	0.77	229	0.99
DIGESTIVE ORGANS	807	1.07	1967	1.02	2171	1.07	5050	1.01
STOMACH	254	1.29	501	1.00	408	1.31	744	0.96
COLON & RECTUM	321	1.01	877	1.08	1041	1.06	2554	1.04
LIVER (PRIMARY)	79	0.87	246	1.07	140	1.05	326	0.98
TRACHEA, BRONCHUS, LUNG	211	1.04	395	0.79	1276	0.94	2912	0.89
BREAST (FEMALE)	150	1.17	321	0.97	480	1.02	1358	1.18
THYROID	7	0.87	33	1.61	16	0.82	61	1.26
BONES & JOINTS	16	1.29	35	1.11	21	1.00	41	0.78
BLADDER	79	1.15	195	1.10	206	1.03	580	1.14
BRAIN & OTHER C.N.S.	9	0.56	38	0.96	92	0.88	264	1.05
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	41	1.18	94	1.11

Table 1-B.2

Age at death: 60 plus

Dresden 1,2,3 (1960)
Grundy, IL ; Will, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.82	0.93	1.01	0.89
ALL CANCER, EXCL LEUK	1.07*	1.01	0.97	1.03
HODGKIN'S DISEASE	0.20**	1.15	4.50**	0.78
OTHER LYMPHOMA	1.03	1.01	1.02	1.04
MULTIPLE MYELOMA	0.61	0.78	1.35	1.05
DIGESTIVE ORGANS	1.05	1.06*	1.00	0.99
STOMACH	1.29**	1.36***	1.02	0.96
COLON & RECTUM	0.94	1.02	1.05	0.96
LIVER (PRIMARY)	0.81	1.07	1.21	0.92
TRACHEA, BRONCHUS, LUNG	1.32**	1.06	0.90	1.13*
BREAST (FEMALE)	1.21	0.86**	0.87	1.22**
THYROID	0.54	0.65	0.94	0.78
BONES & JOINTS	1.16	1.28	0.78	0.70
BLADDER	1.05	0.90	0.90	1.04
BRAIN & OTHER C.N.S.	0.58	0.84	1.57	1.09
BENIGN & UNSPEC NEOPLASMS	-	1.06	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.2

Age at death: all

Dresden 1,2,3 (1960)
Grundy, IL ; Will, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	125	0.94	338	1.07	407	0.95	1005	1.04
ALL CANCER, EXCL LEUK	2717	1.01	6218	0.95	9142	1.01	20756	0.99
HODGKIN'S DISEASE	25	0.69	82	1.01	85	0.99	178	0.97
OTHER LYMPHOMA	80	1.16	161	0.99	320	1.09	696	1.03
MULTIPLE MYELOMA	17	0.69	53	0.91	103	0.81	291	0.99
DIGESTIVE ORGANS	1059	1.04	2519	1.01	2821	1.06	6322	1.00
STOMACH	314	1.23	618	0.99	496	1.22	918	0.95
COLON & RECTUM	430	1.01	1120	1.06	1360	1.08	3149	1.04
LIVER (PRIMARY)	112	0.93	320	1.08	195	1.07	438	1.02
TRACHEA, BRONCHUS, LUNG	320	0.95	599	0.76	2021	0.98	4181	0.89
BREAST (FEMALE)	259	1.05	584	0.98	890	1.04	2187	1.11
THYROID	10	0.86	42	1.48	23	0.87	76	1.21
BONES & JOINTS	32	1.35	62	1.10	60	1.27	85	0.81
BLADDER	96	1.15	230	1.10	235	1.01	652	1.14
BRAIN & OTHER C.N.S.	64	0.95	128	0.84	221	0.86	577	1.03
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	63	1.02	139	1.01

Table 1-B.2

Age at death: all

Dresden 1,2,3 (1960)
Grundy, IL ; Will, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.88	0.91	1.01	0.97
ALL CANCER, EXCL LEUK	1.06*	1.02	1.00	1.04*
HODGKIN'S DISEASE	0.68	1.02	1.43	0.96
OTHER LYMPHOMA	1.17	1.06	0.94	1.04
MULTIPLE MYELOMA	0.76	0.82	1.17	1.09
DIGESTIVE ORGANS	1.03	1.06*	1.02	0.99
STOMACH	1.24**	1.28***	0.99	0.96
COLON & RECTUM	0.95	1.04	1.07	0.98
LIVER (PRIMARY)	0.86	1.05	1.15	0.94
TRACHEA, BRONCHUS, LUNG	1.25**	1.10***	1.03	1.17***
BREAST (FEMALE)	1.07	0.94	0.99	1.13**
THYROID	0.58	0.72	1.01	0.82
BONES & JOINTS	1.23	1.57*	0.94	0.74
BLADDER	1.05	0.89	0.88	1.04
BRAIN & OTHER C.N.S.	1.13	0.83*	0.91	1.23*
BENIGN & UNSPEC NEOPLASMS	-	1.01	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.3

Age at death: under 10

Yankee-Rowe 1 (1960)
Berkshire, MA ; Franklin, MA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	20	1.05	48	0.85	20	0.80	69	0.78
ALL CANCER, EXCL LEUK	18	0.91	52	0.89	27	0.99	89	0.90
HODGKIN'S DISEASE	0	0.00	2	1.93	2	6.59	1	0.95
OTHER LYMPHOMA	2	0.72	16	1.94	4	1.19	6	0.50
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	2	1.85	1	0.31	3	2.25	1	0.21
STOMACH	1	16.31	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	1	9.75	0	0.00
LIVER (PRIMARY)	0	0.00	1	0.60	1	1.06	1	0.29
TRACHEA, BRONCHUS, LUNG	1	5.65	2	3.84	1	4.36	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	1.36	2	0.92	1	1.03	3	0.87
BLADDER	0	0.00	3	7.68	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	8	1.00	12	0.51	9	0.85	36	0.95
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	3	1.93	4	0.66

Table 1-B.3

Age at death: under 10

Yankee-Rowe 1 (1960)
Berkshire, MA ; Franklin, MA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.24	1.03	0.76	0.92
ALL CANCER, EXCL LEUK	1.02	1.10	1.09	1.01
HODGKIN'S DISEASE	0.00	6.94	-	0.49
OTHER LYMPHOMA	0.37	2.38	1.65	0.26**
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	5.97	10.71	1.22	0.68
STOMACH	-	-	0.00	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.00	3.66	-	0.48
TRACHEA, BRONCHUS, LUNG	1.47	-	0.77	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.48	1.18	0.76	0.95
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	1.96	0.89	0.85	1.86
BENIGN & UNSPEC NEOPLASMS	-	2.92	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.3

Age at death: 10 to 19

Yankee-Rowe 1 (1960)
Berkshire, MA ; Franklin, MA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4	0.55	22	0.99	18	1.02	74	1.19
ALL CANCER, EXCL LEUK	8	0.58	33	0.79	29	0.89	96	0.84
HODGKIN'S DISEASE	1	0.67	4	0.87	4	1.41	9	0.92
OTHER LYMPHOMA	1	0.51	2	0.33	4	0.83	14	0.83
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	1.34	2	0.89	2	1.44	2	0.41
STOMACH	0	0.00	0	0.00	1	13.05	0	0.00
COLON & RECTUM	1	3.06	1	1.01	0	0.00	2	1.33
LIVER (PRIMARY)	0	0.00	0	0.00	1	1.73	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	3	2.79
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	1	3.97
BONES & JOINTS	2	0.77	8	1.01	3	0.50	15	0.71
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	1	0.29	7	0.66	8	0.97	20	0.69
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	2	0.44

Table 1-B.3

Age at death: 10 to 19

Yankee-Rowe 1 (1960)
Berkshire, MA ; Franklin, MA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.56	0.86	1.85	1.20
ALL CANCER, EXCL LEUK	0.73	1.06	1.53	1.06
HODGKIN'S DISEASE	0.77	1.53	2.10	1.06
OTHER LYMPHOMA	1.55	1.00	1.63	2.52
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.51	3.51	1.07	0.46
STOMACH	-	-	-	-
COLON & RECTUM	3.03	0.00	0.00	1.32
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	0.00	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	0.00	-	-
BONES & JOINTS	0.76	0.70	0.65	0.70
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.44	1.41	3.34	1.05
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.3

Age at death: 20 to 39

Yankee-Rowe 1 (1960)
Berkshire, MA ; Franklin, MA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	9	0.71	35	0.94	21	0.84	81	0.88
ALL CANCER, EXCL LEUK	127	1.10	335	1.00	207	1.02	741	1.00
HODGKIN'S DISEASE	18	1.78	35	1.18	25	1.45	72	1.15
OTHER LYMPHOMA	9	1.48	16	0.91	11	0.85	51	1.06
MULTIPLE MYELOMA	1	2.00	2	1.40	1	1.23	3	1.00
DIGESTIVE ORGANS	27	1.28	74	1.21	35	1.19	99	0.91
STOMACH	5	1.07	12	0.90	1	0.20	16	0.87
COLON & RECTUM	14	1.31	36	1.17	21	1.44	47	0.88
LIVER (PRIMARY)	4	1.92	7	1.17	1	0.35	12	1.15
TRACHEA, BRONCHUS, LUNG	6	0.82	22	1.05	17	0.93	64	0.94
BREAST (FEMALE)	14	0.86	36	0.77	34	1.15	122	1.12
THYROID	0	0.00	0	0.00	0	0.00	2	0.93
BONES & JOINTS	1	0.46	5	0.79	4	1.02	17	1.19
BLADDER	2	3.66	3	1.92	2	2.97	4	1.62
BRAIN & OTHER C.N.S.	10	0.97	27	0.90	21	1.09	50	0.70
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	6	1.92	16	1.34

Table 1-B.3

Age at death: 20 to 39

Yankee-Rowe 1 (1960)
Berkshire, MA ; Franklin, MA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.76	0.95	1.18	0.94
ALL CANCER, EXCL LEUK	1.10	1.02	0.93	1.00
HODGKIN'S DISEASE	1.51	1.26	0.81	0.97
OTHER LYMPHOMA	1.63	0.80	0.57	1.16
MULTIPLE MYELOMA	1.43	1.23	0.62	0.71
DIGESTIVE ORGANS	1.06	1.31	0.93	0.75
STOMACH	1.19	0.23	0.19	0.97
COLON & RECTUM	1.12	1.64	1.10	0.75
LIVER (PRIMARY)	1.64	0.30	0.18	0.98
TRACHEA, BRONCHUS, LUNG	0.78	0.99	1.13	0.90
BREAST (FEMALE)	1.12	1.03	1.34	1.45
THYROID	-	0.00	-	-
BONES & JOINTS	0.58	0.86	2.22	1.51
BLADDER	1.91	1.83	0.81	0.84
BRAIN & OTHER C.N.S.	1.08	1.56	1.12	0.78
BENIGN & UNSPEC NEOPLASMS	-	1.43	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.3

Age at death: 40 to 59

Yankee-Rowe 1 (1960)
Berkshire, MA ; Franklin, MA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	35	1.08	97	1.00	62	0.94	194	0.90
ALL CANCER, EXCL LEUK	881	1.03	2794	1.09	2042	1.00	7089	1.07
HODGKIN'S DISEASE	10	0.79	29	0.76	21	1.01	83	1.23
OTHER LYMPHOMA	26	1.07	88	1.20	54	0.82	205	0.95
MULTIPLE MYELOMA	12	1.38	31	1.18	24	1.02	65	0.85
DIGESTIVE ORGANS	288	1.14	905	1.19	536	1.14	1717	1.13
STOMACH	64	1.15	192	1.15	73	1.07	246	1.12
COLON & RECTUM	133	1.22	455	1.38	262	1.22	858	1.24
LIVER (PRIMARY)	25	0.83	80	0.89	27	0.80	79	0.74
TRACHEA, BRONCHUS, LUNG	118	0.91	458	1.16	503	0.94	1760	1.01
BREAST (FEMALE)	114	0.95	386	1.07	284	0.97	1038	1.09
THYROID	7	2.01	13	1.24	13	2.56	18	1.10
BONES & JOINTS	7	1.11	16	0.84	5	0.64	18	0.72
BLADDER	19	1.26	51	1.12	34	1.35	96	1.19
BRAIN & OTHER C.N.S.	32	1.00	74	0.77	70	0.91	233	0.93
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	18	1.42	42	1.01

Table 1-B.3

Age at death: 40 to 59

Yankee-Rowe 1 (1960)
Berkshire, MA ; Franklin, MA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.08	1.04	0.87	0.90
ALL CANCER, EXCL LEUK	0.94	0.93*	0.97	0.98
HODGKIN'S DISEASE	1.04	0.82	1.28	1.62*
OTHER LYMPHOMA	0.89	0.86	0.77	0.79
MULTIPLE MYELOMA	1.17	1.20	0.74	0.72
DIGESTIVE ORGANS	0.96	1.01	1.00	0.95
STOMACH	1.00	0.96	0.93	0.97
COLON & RECTUM	0.88	0.98	1.00	0.90
LIVER (PRIMARY)	0.93	1.08	0.96	0.83
TRACHEA, BRONCHUS, LUNG	0.78*	0.93	1.03	0.87**
BREAST (FEMALE)	0.89	0.89	1.02	1.02
THYROID	1.62	2.33*	1.27	0.89
BONES & JOINTS	1.32	0.89	0.58	0.86
BLADDER	1.13	1.13	1.07	1.06
BRAIN & OTHER C.N.S.	1.30	0.98	0.91	1.21
BENIGN & UNSPEC NEOPLASMS	-	1.41	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.3

Age at death: 60 plus

Yankee-Rowe 1 (1960)
Berkshire, MA ; Franklin, MA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	85	0.98	259	1.01	271	0.95	865	0.99
ALL CANCER, EXCL LEUK	2737	1.12	8114	1.12	7601	1.06	24310	1.10
HODGKIN'S DISEASE	15	0.95	48	1.03	39	1.17	106	1.03
OTHER LYMPHOMA	47	0.97	174	1.22	191	0.91	616	0.94
MULTIPLE MYELOMA	22	1.05	61	0.98	97	0.89	313	0.92
DIGESTIVE ORGANS	1266	1.19	3561	1.14	2725	1.13	8562	1.16
STOMACH	344	1.25	879	1.09	395	1.06	1255	1.10
COLON & RECTUM	572	1.26	1668	1.25	1429	1.21	4558	1.25
LIVER (PRIMARY)	102	0.79	355	0.94	166	1.03	475	0.97
TRACHEA, BRONCHUS, LUNG	239	0.93	760	0.99	1409	0.95	4793	1.03
BREAST (FEMALE)	241	1.24	714	1.25	631	1.11	2025	1.15
THYROID	11	0.95	21	0.62	31	1.31	70	0.96
BONES & JOINTS	25	1.45	50	0.98	34	1.34	72	0.93
BLADDER	115	1.20	366	1.30	302	1.25	886	1.20
BRAIN & OTHER C.N.S.	20	0.97	42	0.68	116	1.00	328	0.90
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	36	0.90	163	1.32

Table 1-B.3

Age at death: 60 plus

Yankee-Rowe 1 (1960)
Berkshire, MA ; Franklin, MA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.97	0.96	0.97	0.98
ALL CANCER, EXCL LEUK	1.00	0.96*	0.95*	0.98
HODGKIN'S DISEASE	0.92	1.14	1.23	1.00
OTHER LYMPHOMA	0.80	0.97	0.94	0.77**
MULTIPLE MYELOMA	1.07	0.97	0.85	0.94
DIGESTIVE ORGANS	1.04	0.97	0.95	1.02
STOMACH	1.15*	0.96	0.85*	1.01
COLON & RECTUM	1.01	0.97	0.96	1.00
LIVER (PRIMARY)	0.84	1.06	1.30*	1.03
TRACHEA, BRONCHUS, LUNG	0.94	0.92**	1.02	1.04
BREAST (FEMALE)	0.99	0.97	0.90	0.92*
THYROID	1.53	1.36	1.38	1.55
BONES & JOINTS	1.48	1.44	0.92	0.95
BLADDER	0.92	1.04	1.04	0.92
BRAIN & OTHER C.N.S.	1.43	1.11	1.03	1.32
BENIGN & UNSPEC NEOPLASMS	-	0.68*	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.3

Age at death: all

Yankee-Rowe 1 (1960)
Berkshire, MA ; Franklin, MA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	153	0.96	461	0.98	392	0.94	1283	0.96
ALL CANCER, EXCL LEUK	3771	1.09	11328	1.11	9906	1.05	32325	1.09
HODGKIN'S DISEASE	44	1.09	118	0.98	91	1.22	271	1.11
OTHER LYMPHOMA	85	1.02	296	1.19	264	0.89	892	0.94
MULTIPLE MYELOMA	35	1.16	94	1.05	122	0.91	381	0.91
DIGESTIVE ORGANS	1584	1.18	4543	1.15	3301	1.13	10381	1.15
STOMACH	414	1.23	1083	1.09	470	1.05	1517	1.10
COLON & RECTUM	720	1.26	2160	1.28	1713	1.21	5465	1.25
LIVER (PRIMARY)	131	0.81	443	0.93	196	0.98	567	0.92
TRACHEA, BRONCHUS, LUNG	364	0.92	1242	1.05	1930	0.95	6620	1.02
BREAST (FEMALE)	369	1.12	1136	1.16	949	1.07	3185	1.13
THYROID	18	1.16	34	0.74	44	1.49	91	0.99
BONES & JOINTS	36	1.24	81	0.94	47	1.07	125	0.88
BLADDER	136	1.22	423	1.28	338	1.26	986	1.20
BRAIN & OTHER C.N.S.	71	0.95	162	0.73	224	0.97	667	0.88
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	63	1.08	227	1.21

Table 1-B.3

Age at death: all

Yankee-Rowe 1 (1960)
Berkshire, MA ; Franklin, MA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.98	0.98	0.98	0.98
ALL CANCER, EXCL LEUK	0.98	0.96**	0.96*	0.98
HODGKIN'S DISEASE	1.11	1.10	1.12	1.13
OTHER LYMPHOMA	0.86	0.95	0.87	0.79***
MULTIPLE MYELOMA	1.10	1.00	0.78	0.87
DIGESTIVE ORGANS	1.03	0.98	0.96	1.00
STOMACH	1.13*	0.95	0.85*	1.01
COLON & RECTUM	0.98	0.97	0.96	0.98
LIVER (PRIMARY)	0.87	1.07	1.21	0.99
TRACHEA, BRONCHUS, LUNG	0.88*	0.93**	1.03	0.97
BREAST (FEMALE)	0.97	0.95	0.96	0.97
THYROID	1.57	1.51*	1.28	1.34
BONES & JOINTS	1.32	1.22	0.86	0.94
BLADDER	0.95	1.05	1.03	0.94
BRAIN & OTHER C.N.S.	1.30	1.10	1.02	1.21*
BENIGN & UNSPEC NEOPLASMS	-	0.89	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.4

Age at death: under 10

Big Rock Point 1 (1962)
Charlevoix, MI ; Emmet, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	5	1.31	17	1.47	4	0.96	7	0.53
ALL CANCER, EXCL LEUK	4	1.01	8	0.67	4	0.84	17	1.14
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	1	0.59	0	0.00	2	1.13
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	3	4.67	0	0.00	4	5.44
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	2	5.69	0	0.00	4	7.54
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	1	2.30	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	3	1.86	2	0.41	3	1.67	3	0.53
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	2.97	0	0.00

Table 1-B.4

Age at death: under 10

Big Rock Point 1 (1962)
Charlevoix, MI ; Emmet, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.89	1.81	0.73	0.36*
ALL CANCER, EXCL LEUK	1.51	0.74	0.83	1.70
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	0.00	0.00	-	1.92
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	0.00	-	1.16
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.00	0.00	-	1.33
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	-	-	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	4.54	3.15	0.90	1.29
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.4

Age at death: 10 to 19

Big Rock Point 1 (1962)
Charlevoix, MI ; Emmet, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	0	0.00	4	0.87	2	0.63	10	1.03
ALL CANCER, EXCL LEUK	5	1.62	6	0.70	3	0.52	20	1.13
HODGKIN'S DISEASE	1	2.98	0	0.00	0	0.00	2	1.38
OTHER LYMPHOMA	1	2.25	1	0.80	1	1.16	6	2.29
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	1	0.62	1	0.93	5	1.53
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	1	1.27	2	0.91	0	0.00	3	0.67
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	0	0.00

Table 1-B.4

Age at death: 10 to 19

Big Rock Point 1 (1962)
Charlevoix, MI ; Emmet, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.00	0.61	-	1.18
ALL CANCER, EXCL LEUK	2.31	0.46	0.32	1.61
HODGKIN'S DISEASE	-	0.00	0.00	-
OTHER LYMPHOMA	2.81	0.51	0.52	2.86
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	0.61	-	2.47
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.40	0.00	0.00	0.74
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.4

Age at death: 20 to 39

Big Rock Point 1 (1962)
Charlevoix, MI ; Emmet, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1	0.52	3	0.51	5	1.19	20	1.57
ALL CANCER, EXCL LEUK	23	1.29	47	0.90	40	1.18	96	0.95
HODGKIN'S DISEASE	3	1.94	4	0.83	6	2.20	7	0.83
OTHER LYMPHOMA	0	0.00	3	1.06	2	0.92	5	0.76
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	4	1.24	9	0.97	6	1.21	16	1.09
STOMACH	0	0.00	4	2.00	1	1.20	1	0.41
COLON & RECTUM	2	1.24	4	0.86	2	0.82	9	1.24
LIVER (PRIMARY)	2	6.17	0	0.00	1	2.06	2	1.40
TRACHEA, BRONCHUS, LUNG	5	4.32	3	0.89	1	0.32	10	1.06
BREAST (FEMALE)	1	0.39	8	1.11	6	1.19	15	1.02
THYROID	0	0.00	1	5.55	0	0.00	0	0.00
BONES & JOINTS	2	6.14	1	0.99	2	3.11	2	1.00
BLADDER	0	0.00	1	4.30	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	1	0.64	5	1.05	5	1.55	7	0.72
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	1	0.55

Table 1-B.4

Age at death: 20 to 39

Big Rock Point 1 (1962)
Charlevoix, MI ; Emmet, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.02	0.76	2.29	3.08
ALL CANCER, EXCL LEUK	1.43	1.24	0.91	1.06
HODGKIN'S DISEASE	2.34	2.65	1.13	1.00
OTHER LYMPHOMA	0.00	1.21	-	0.72
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.28	1.11	0.98	1.12
STOMACH	0.00	2.93	-	0.21
COLON & RECTUM	1.44	0.66	0.66	1.44
LIVER (PRIMARY)	-	1.47	0.33	-
TRACHEA, BRONCHUS, LUNG	4.85	0.30	0.07*	1.19
BREAST (FEMALE)	0.35	1.17	3.05	0.92
THYROID	0.00	-	-	0.00
BONES & JOINTS	6.20	3.11	0.51	1.01
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	0.61	2.15	2.42	0.69
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.4

Age at death: 40 to 59

Big Rock Point 1 (1962)
Charlevoix, MI ; Emmet, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	5	0.92	15	0.99	5	0.52	23	0.78
ALL CANCER, EXCL LEUK	117	0.81	376	0.95	278	0.92	910	1.00
HODGKIN'S DISEASE	2	0.94	5	0.83	4	1.38	12	1.39
OTHER LYMPHOMA	6	1.43	8	0.68	13	1.34	38	1.28
MULTIPLE MYELOMA	1	0.65	6	1.43	8	2.30	13	1.24
DIGESTIVE ORGANS	35	0.81	113	0.96	60	0.88	207	1.01
STOMACH	5	0.53	19	0.76	9	0.93	24	0.83
COLON & RECTUM	15	0.82	48	0.95	25	0.81	90	0.96
LIVER (PRIMARY)	7	1.39	15	1.10	3	0.66	20	1.48
TRACHEA, BRONCHUS, LUNG	21	0.90	53	0.81	67	0.83	245	0.99
BREAST (FEMALE)	10	0.50	47	0.87	37	0.85	126	0.96
THYROID	0	0.00	0	0.00	0	0.00	1	0.46
BONES & JOINTS	1	0.97	2	0.71	0	0.00	2	0.61
BLADDER	4	1.56	12	1.72	12	3.36	10	0.92
BRAIN & OTHER C.N.S.	5	0.92	18	1.18	16	1.42	47	1.37
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	4	1.94	4	0.65

Table 1-B.4

Age at death: 40 to 59

Big Rock Point 1 (1962)
Charlevoix, MI ; Emmet, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.93	0.67	0.57	0.79
ALL CANCER, EXCL LEUK	0.85	0.92	1.14	1.05
HODGKIN'S DISEASE	1.13	0.99	1.47	1.67
OTHER LYMPHOMA	2.10	1.05	0.94	1.88
MULTIPLE MYELOMA	0.45	1.85	3.54	0.87
DIGESTIVE ORGANS	0.84	0.87	1.09	1.05
STOMACH	0.70	1.12	1.75	1.09
COLON & RECTUM	0.86	0.84	0.99	1.01
LIVER (PRIMARY)	1.26	0.45	0.47	1.35
TRACHEA, BRONCHUS, LUNG	1.11	0.84	0.92	1.22
BREAST (FEMALE)	0.57	0.89	1.70	1.10
THYROID	-	0.00	-	-
BONES & JOINTS	1.37	0.00	0.00	0.86
BLADDER	0.91	3.65**	2.15	0.53
BRAIN & OTHER C.N.S.	0.78	1.04	1.54	1.16
BENIGN & UNSPEC NEOPLASMS	-	2.98	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.4

Age at death: 60 plus

Big Rock Point 1 (1962)
Charlevoix, MI ; Emmet, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	15	0.85	52	1.15	61	1.34	156	1.16
ALL CANCER, EXCL LEUK	479	0.99	1227	1.00	1225	1.06	3385	0.99
HODGKIN'S DISEASE	3	0.97	5	0.63	6	1.18	20	1.32
OTHER LYMPHOMA	7	0.72	21	0.83	45	1.32	101	0.98
MULTIPLE MYELOMA	6	1.38	14	1.26	26	1.45	55	1.03
DIGESTIVE ORGANS	217	1.05	548	1.05	381	1.01	1113	1.01
STOMACH	49	0.91	167	1.24	68	1.19	165	1.00
COLON & RECTUM	105	1.20	214	0.97	171	0.92	560	1.03
LIVER (PRIMARY)	20	0.83	81	1.34	17	0.73	50	0.74
TRACHEA, BRONCHUS, LUNG	48	0.86	112	0.76	271	1.06	716	0.90
BREAST (FEMALE)	43	1.31	81	1.02	89	1.06	241	0.99
THYROID	2	0.95	5	0.95	2	0.57	14	1.38
BONES & JOINTS	1	0.30	4	0.48	4	1.03	12	1.06
BLADDER	19	0.97	54	1.08	55	1.40	147	1.27
BRAIN & OTHER C.N.S.	1	0.24	8	0.74	23	1.20	60	1.01
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	3	0.44	24	1.18

Table 1-B.4

Age at death: 60 plus

Big Rock Point 1 (1962)
Charlevoix, MI ; Emmet, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.74	1.16	1.58	1.01
ALL CANCER, EXCL LEUK	0.99	1.07*	1.07	0.99
HODGKIN'S DISEASE	1.54	0.89	1.22	2.10
OTHER LYMPHOMA	0.87	1.35	1.83	1.18
MULTIPLE MYELOMA	1.10	1.41	1.05	0.82
DIGESTIVE ORGANS	1.00	1.00	0.96	0.96
STOMACH	0.73	1.19	1.31	0.81
COLON & RECTUM	1.24	0.89	0.77*	1.06
LIVER (PRIMARY)	0.62	0.99	0.88	0.55**
TRACHEA, BRONCHUS, LUNG	1.13	1.18*	1.23	1.18
BREAST (FEMALE)	1.28	1.07	0.81	0.97
THYROID	1.00	0.41	0.60	1.45
BONES & JOINTS	0.63	0.97	3.43	2.21
BLADDER	0.90	1.10	1.44	1.18
BRAIN & OTHER C.N.S.	0.32	1.19	5.00	1.36
BENIGN & UNSPEC NEOPLASMS	-	0.37	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.4

Age at death: all

Big Rock Point 1 (1962)
Charlevoix, MI ; Emmet, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	26	0.85	91	1.10	77	1.15	216	1.08
ALL CANCER, EXCL LEUK	628	0.96	1664	0.98	1550	1.04	4428	0.99
HODGKIN'S DISEASE	9	1.25	14	0.70	16	1.43	41	1.21
OTHER LYMPHOMA	14	0.88	34	0.80	61	1.29	152	1.06
MULTIPLE MYELOMA	7	1.17	20	1.29	34	1.58	68	1.06
DIGESTIVE ORGANS	256	1.01	673	1.04	447	0.99	1340	1.01
STOMACH	54	0.85	190	1.18	78	1.15	190	0.97
COLON & RECTUM	122	1.13	266	0.97	198	0.90	659	1.02
LIVER (PRIMARY)	29	0.98	98	1.30	21	0.73	76	0.92
TRACHEA, BRONCHUS, LUNG	74	0.92	168	0.77	339	1.00	971	0.92
BREAST (FEMALE)	54	0.97	136	0.96	132	1.00	382	0.98
THYROID	2	0.72	6	0.85	2	0.46	15	1.19
BONES & JOINTS	4	0.74	9	0.63	7	1.02	21	1.03
BLADDER	23	1.03	67	1.17	67	1.55	157	1.23
BRAIN & OTHER C.N.S.	11	0.81	35	0.92	47	1.27	120	1.05
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	8	0.79	29	0.96

Table 1-B.4

Age at death: all

Big Rock Point 1 (1962)
Charlevoix, MI ; Emmet, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.77	1.06	1.35	0.98
ALL CANCER, EXCL LEUK	0.98	1.05	1.08	1.01
HODGKIN'S DISEASE	1.79	1.18	1.14	1.73
OTHER LYMPHOMA	1.10	1.22	1.47	1.33
MULTIPLE MYELOMA	0.91	1.49	1.35	0.82
DIGESTIVE ORGANS	0.97	0.98	0.98	0.97
STOMACH	0.72*	1.19	1.35	0.82
COLON & RECTUM	1.16	0.88	0.80	1.05
LIVER (PRIMARY)	0.75	0.79	0.74	0.71*
TRACHEA, BRONCHUS, LUNG	1.19	1.09	1.09	1.19*
BREAST (FEMALE)	1.01	1.02	1.03	1.02
THYROID	0.85	0.39	0.64	1.40
BONES & JOINTS	1.17	0.99	1.38	1.63
BLADDER	0.88	1.26	1.50	1.05
BRAIN & OTHER C.N.S.	0.88	1.21	1.57	1.14
BENIGN & UNSPEC NEOPLASMS	-	0.82	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.5

Age at death: under 10

Hallam (1962)
Gage, NE ; Lancaster, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	18	0.93	20	1.25	29	1.44	11	0.75
ALL CANCER, EXCL LEUK	23	1.16	24	1.46	29	1.26	22	1.33
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	1	5.79
OTHER LYMPHOMA	5	1.79	6	2.59	3	1.12	3	1.53
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	1	1.12	4	3.45	2	2.43
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	1	2.04	3	3.60	1	1.70
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	1.43	0	0.00	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	10	1.23	6	0.89	12	1.38	10	1.59
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	2	1.26	3	2.76

Table 1-B.5

Age at death: under 10

Hallam (1962)
Gage, NE ; Lancaster, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.74	1.92	1.55	0.60
ALL CANCER, EXCL LEUK	0.79	0.95	1.09	0.91
HODGKIN'S DISEASE	-	0.00	-	-
OTHER LYMPHOMA	0.69	0.73	0.63	0.59
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	1.42	-	2.17
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.00	2.12	-	0.83
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	-	0.00	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.38	0.87	1.12	1.79
BENIGN & UNSPEC NEOPLASMS	-	0.46	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.5

Age at death: 10 to 19

Hallam (1962)
Gage, NE ; Lancaster, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	6	0.79	5	0.80	16	1.02	11	1.02
ALL CANCER, EXCL LEUK	10	0.67	12	1.00	26	0.88	24	1.20
HODGKIN'S DISEASE	0	0.00	1	0.75	1	0.38	3	1.74
OTHER LYMPHOMA	2	0.95	2	1.17	4	0.93	7	2.37
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	1	1.58	2	1.51	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	1	3.69	1	2.34	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	1	1.83	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.36	2	0.89	6	1.09	3	0.81
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	2	0.55	2	0.67	6	0.84	6	1.20
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	0	0.00

Table 1-B.5

Age at death: 10 to 19

Hallam (1962)
Gage, NE ; Lancaster, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.99	1.00	1.29	1.28
ALL CANCER, EXCL LEUK	0.67	0.73	1.31	1.20
HODGKIN'S DISEASE	0.00	0.22	-	2.32
OTHER LYMPHOMA	0.81	0.39	0.98	2.03
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	-	-	-	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.40	1.35	3.03	0.91
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.82	0.70	1.53	1.79
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.5

Age at death: 20 to 39

Hallam (1962)
Gage, NE ; Lancaster, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	17	1.15	10	0.98	21	0.74	14	0.90
ALL CANCER, EXCL LEUK	87	0.72	74	0.84	193	0.95	111	0.91
HODGKIN'S DISEASE	6	0.50	9	1.08	15	0.80	8	0.76
OTHER LYMPHOMA	6	0.86	4	0.82	20	1.42	8	1.01
MULTIPLE MYELOMA	0	0.00	0	0.00	3	3.89	1	2.07
DIGESTIVE ORGANS	22	1.04	11	0.71	31	1.08	20	1.14
STOMACH	4	0.89	3	0.90	4	0.84	3	1.01
COLON & RECTUM	14	1.32	5	0.64	17	1.20	11	1.27
LIVER (PRIMARY)	0	0.00	1	0.65	3	0.99	2	1.15
TRACHEA, BRONCHUS, LUNG	4	0.52	2	0.35	8	0.46	10	0.92
BREAST (FEMALE)	14	0.93	13	1.12	18	0.68	13	0.75
THYROID	0	0.00	0	0.00	1	1.72	0	0.00
BONES & JOINTS	4	1.46	1	0.55	6	1.21	0	0.00
BLADDER	1	1.92	1	2.57	2	3.21	0	0.00
BRAIN & OTHER C.N.S.	12	1.06	5	0.62	12	0.59	11	0.94
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	2	0.53	3	1.46

Table 1-B.5

Age at death: 20 to 39

Hallam (1962)
Gage, NE ; Lancaster, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.17	0.82	0.64	0.92
ALL CANCER, EXCL LEUK	0.86	1.04	1.32*	1.08
HODGKIN'S DISEASE	0.46	1.05	1.60	0.70
OTHER LYMPHOMA	1.05	1.41	1.65	1.23
MULTIPLE MYELOMA	-	1.88	-	-
DIGESTIVE ORGANS	1.46	0.95	1.04	1.61
STOMACH	0.99	0.83	0.94	1.12
COLON & RECTUM	2.06	0.94	0.91	1.98
LIVER (PRIMARY)	0.00	0.86	-	1.77
TRACHEA, BRONCHUS, LUNG	1.49	0.50	0.88	2.63
BREAST (FEMALE)	0.83	0.91	0.73	0.67
THYROID	-	-	-	-
BONES & JOINTS	2.65	-	0.83	0.00
BLADDER	0.75	-	1.67	0.00
BRAIN & OTHER C.N.S.	1.71	0.63	0.56	1.52
BENIGN & UNSPEC NEOPLASMS	-	0.36	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.5

Age at death: 40 to 59

Hallam (1962)
Gage, NE ; Lancaster, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	40	1.35	16	0.66	56	1.16	36	1.00
ALL CANCER, EXCL LEUK	681	0.86	509	0.79	1334	0.89	994	0.89
HODGKIN'S DISEASE	15	1.30	11	1.15	10	0.68	7	0.64
OTHER LYMPHOMA	29	1.27	12	0.64	35	0.72	50	1.38
MULTIPLE MYELOMA	10	1.21	5	0.74	21	1.22	19	1.48
DIGESTIVE ORGANS	202	0.88	140	0.74	322	0.95	226	0.89
STOMACH	30	0.61	31	0.76	48	0.99	26	0.72
COLON & RECTUM	103	1.03	54	0.66	169	1.10	128	1.11
LIVER (PRIMARY)	17	0.63	19	0.85	17	0.74	11	0.64
TRACHEA, BRONCHUS, LUNG	96	0.78	71	0.68	294	0.73	219	0.73
BREAST (FEMALE)	103	0.91	91	1.01	215	1.01	157	0.99
THYROID	2	0.64	1	0.39	3	0.83	1	0.37
BONES & JOINTS	4	0.72	2	0.44	4	0.73	4	0.97
BLADDER	13	0.96	6	0.53	14	0.78	12	0.89
BRAIN & OTHER C.N.S.	41	1.38	25	1.02	83	1.47	47	1.12
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	7	0.69	4	0.54

Table 1-B.5

Age at death: 40 to 59

Hallam (1962)
Gage, NE ; Lancaster, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	2.05*	1.16	0.86	1.52
ALL CANCER, EXCL LEUK	1.09	1.00	1.03	1.13*
HODGKIN'S DISEASE	1.13	1.06	0.52	0.56
OTHER LYMPHOMA	1.98	0.52**	0.57*	2.16*
MULTIPLE MYELOMA	1.64	0.82	1.01	2.00
DIGESTIVE ORGANS	1.19	1.07	1.08	1.20
STOMACH	0.80	1.38	1.62*	0.95
COLON & RECTUM	1.56**	0.99	1.07	1.68**
LIVER (PRIMARY)	0.74	1.16	1.17	0.75
TRACHEA, BRONCHUS, LUNG	1.15	1.00	0.94	1.07
BREAST (FEMALE)	0.90	1.02	1.11	0.98
THYROID	1.64	2.24	1.30	0.95
BONES & JOINTS	1.64	0.75	1.01	2.20
BLADDER	1.81	0.88	0.81	1.68
BRAIN & OTHER C.N.S.	1.35	1.31	1.07	1.10
BENIGN & UNSPEC NEOPLASMS	-	1.28	-	-

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-B.5

Age at death: 60 plus

Hallam (1962)
Gage, NE ; Lancaster, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	96	1.11	82	1.07	246	1.15	238	1.24
ALL CANCER, EXCL LEUK	2248	0.94	1709	0.81	5028	0.94	3970	0.84
HODGKIN'S DISEASE	17	1.12	14	1.05	18	0.74	19	0.90
OTHER LYMPHOMA	60	1.23	50	1.17	202	1.26	145	1.03
MULTIPLE MYELOMA	23	1.07	19	1.01	86	1.03	87	1.19
DIGESTIVE ORGANS	991	0.97	754	0.84	1772	0.99	1368	0.86
STOMACH	231	0.90	183	0.80	243	0.90	203	0.84
COLON & RECTUM	433	0.99	341	0.89	934	1.05	723	0.92
LIVER (PRIMARY)	136	1.11	105	0.99	65	0.58	49	0.50
TRACHEA, BRONCHUS, LUNG	228	0.87	144	0.61	857	0.76	704	0.71
BREAST (FEMALE)	200	1.07	161	1.04	444	1.03	369	1.01
THYROID	13	1.17	6	0.63	17	0.96	11	0.72
BONES & JOINTS	13	0.81	12	0.84	20	1.09	11	0.67
BLADDER	79	0.85	58	0.69	162	0.89	127	0.77
BRAIN & OTHER C.N.S.	24	1.16	20	1.13	96	1.09	62	0.82
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	31	0.96	15	0.53

Table 1-B.5

Age at death: 60 plus

Hallam (1962)
Gage, NE ; Lancaster, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.04	0.93	1.04	1.16
ALL CANCER, EXCL LEUK	1.16***	1.12***	1.00	1.04
HODGKIN'S DISEASE	1.07	0.82	0.66	0.86
OTHER LYMPHOMA	1.05	1.22	1.02	0.88
MULTIPLE MYELOMA	1.06	0.87	0.96	1.18
DIGESTIVE ORGANS	1.15**	1.15***	1.02	1.02
STOMACH	1.13	1.07	1.00	1.05
COLON & RECTUM	1.11	1.14**	1.06	1.03
LIVER (PRIMARY)	1.12	1.16	0.52***	0.51***
TRACHEA, BRONCHUS, LUNG	1.43**	1.07	0.87	1.16
BREAST (FEMALE)	1.03	1.02	0.96	0.97
THYROID	1.86	1.33	0.82	1.14
BONES & JOINTS	0.96	1.63	1.35	0.80
BLADDER	1.23	1.16	1.05	1.12
BRAIN & OTHER C.N.S.	1.03	1.33	0.94	0.73
BENIGN & UNSPEC NEOPLASMS	-	1.81	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.5

Age at death: all

Hallam (1962)
Gage, NE ; Lancaster, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	177	1.12	133	1.00	368	1.13	310	1.15
ALL CANCER, EXCL LEUK	3049	0.92	2328	0.81	6610	0.93	5121	0.85
HODGKIN'S DISEASE	38	0.93	35	1.07	44	0.73	38	0.85
OTHER LYMPHOMA	102	1.22	74	1.05	264	1.15	213	1.12
MULTIPLE MYELOMA	33	1.09	24	0.92	110	1.08	107	1.23
DIGESTIVE ORGANS	1215	0.95	907	0.82	2131	0.99	1616	0.87
STOMACH	265	0.85	217	0.80	295	0.92	232	0.83
COLON & RECTUM	550	1.00	401	0.84	1121	1.06	862	0.95
LIVER (PRIMARY)	153	1.01	126	0.97	89	0.64	63	0.53
TRACHEA, BRONCHUS, LUNG	328	0.83	217	0.63	1159	0.75	933	0.72
BREAST (FEMALE)	317	1.00	265	1.03	677	1.01	539	1.00
THYROID	15	1.02	7	0.56	21	0.96	12	0.65
BONES & JOINTS	23	0.83	17	0.73	36	1.02	18	0.66
BLADDER	93	0.87	65	0.68	178	0.89	139	0.78
BRAIN & OTHER C.N.S.	89	1.21	58	0.97	209	1.16	136	0.97
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	42	0.86	25	0.63

Table 1-B.5

Age at death: all

Hallam (1962)
Gage, NE ; Lancaster, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.12	0.98	1.01	1.15
ALL CANCER, EXCL LEUK	1.14***	1.09***	1.01	1.05
HODGKIN'S DISEASE	0.87	0.86	0.78	0.79
OTHER LYMPHOMA	1.16	1.03	0.94	1.07
MULTIPLE MYELOMA	1.18	0.88	0.99	1.34
DIGESTIVE ORGANS	1.16***	1.14***	1.04	1.06
STOMACH	1.06	1.11	1.08	1.04
COLON & RECTUM	1.19*	1.12*	1.06	1.13
LIVER (PRIMARY)	1.04	1.21	0.63***	0.55***
TRACHEA, BRONCHUS, LUNG	1.32**	1.04	0.90	1.14
BREAST (FEMALE)	0.97	1.01	1.01	0.97
THYROID	1.82	1.48	0.94	1.16
BONES & JOINTS	1.14	1.55	1.23	0.90
BLADDER	1.28	1.14	1.02	1.15
BRAIN & OTHER C.N.S.	1.25	1.20	0.96	1.00
BENIGN & UNSPEC NEOPLASMS	-	1.37	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.6

Age at death: under 10

Indian Point 1,2,3 (1962)
Rockland, NY ; Westchester, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	95	1.04	402	1.12	122	1.15	433	1.11
ALL CANCER, EXCL LEUK	73	0.77	393	1.05	114	0.94	470	1.07
HODGKIN'S DISEASE	0	0.00	2	0.31	0	0.00	2	0.40
OTHER LYMPHOMA	11	0.82	42	0.80	10	0.69	45	0.85
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	8	1.55	28	1.40	9	1.53	23	1.08
STOMACH	0	0.00	0	0.00	0	0.00	1	2.01
COLON & RECTUM	0	0.00	4	1.60	2	4.15	5	2.90
LIVER (PRIMARY)	6	2.16	14	1.29	6	1.46	15	1.01
TRACHEA, BRONCHUS, LUNG	0	0.00	5	1.60	1	0.89	4	1.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	6	1.72	14	1.02	2	0.47	13	0.83
BLADDER	0	0.00	0	0.00	0	0.00	2	1.09
BRAIN & OTHER C.N.S.	26	0.67	185	1.21	49	1.06	163	0.97
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	11	1.32	21	0.72

Table 1-B.6

Age at death: under 10

Indian Point 1,2,3 (1962)
Rockland, NY ; Westchester, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.93	1.04	1.11	0.99
ALL CANCER, EXCL LEUK	0.73*	0.88	1.22	1.02
HODGKIN'S DISEASE	0.00	0.00	-	1.29
OTHER LYMPHOMA	1.03	0.81	0.84	1.06
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.11	1.42	0.99	0.77
STOMACH	-	0.00	-	-
COLON & RECTUM	0.00	1.43	-	1.81
LIVER (PRIMARY)	1.67	1.45	0.68	0.78
TRACHEA, BRONCHUS, LUNG	0.00	0.89	-	0.63
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.69	0.57	0.27	0.81
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	0.55**	1.09	1.58	0.80*
BENIGN & UNSPEC NEOPLASMS	-	1.83	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.6

Age at death: 10 to 19

Indian Point 1,2,3 (1962)
Rockland, NY ; Westchester, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	51	1.38	135	1.01	79	0.95	346	1.12
ALL CANCER, EXCL LEUK	74	1.05	275	1.09	174	1.13	618	1.08
HODGKIN'S DISEASE	8	1.04	30	1.10	13	1.03	77	1.61
OTHER LYMPHOMA	12	1.19	45	1.23	26	1.15	81	0.96
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	1	3.43
DIGESTIVE ORGANS	3	0.79	21	1.61	10	1.40	20	0.77
STOMACH	0	0.00	1	0.98	2	4.96	0	0.00
COLON & RECTUM	1	0.63	6	1.12	2	0.84	6	0.70
LIVER (PRIMARY)	2	1.84	10	2.62	5	1.70	11	1.02
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	1	0.68	6	1.09
BREAST (FEMALE)	0	0.00	1	1.70	0	0.00	1	0.94
THYROID	0	0.00	0	0.00	1	3.11	0	0.00
BONES & JOINTS	19	1.45	46	0.98	32	1.14	121	1.16
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	15	0.83	75	1.15	43	1.11	142	0.99
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	10	1.43	29	1.13

Table 1-B.6

Age at death: 10 to 19

Indian Point 1,2,3 (1962)
Rockland, NY ; Westchester, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.37	0.85	0.69	1.11
ALL CANCER, EXCL LEUK	0.96	1.05	1.08	0.99
HODGKIN'S DISEASE	0.95	0.64	0.99	1.46
OTHER LYMPHOMA	0.97	1.20	0.97	0.78
MULTIPLE MYELOMA	-	0.00	-	-
DIGESTIVE ORGANS	0.49	1.82	1.77	0.48*
STOMACH	0.00	-	-	0.00
COLON & RECTUM	0.56	1.20	1.33	0.63
LIVER (PRIMARY)	0.70	1.67	0.92	0.39
TRACHEA, BRONCHUS, LUNG	-	0.62	-	-
BREAST (FEMALE)	0.00	0.00	-	0.55
THYROID	-	-	-	-
BONES & JOINTS	1.48	0.98	0.79	1.18
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.72	1.12	1.34	0.86
BENIGN & UNSPEC NEOPLASMS	-	1.27	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.6

Age at death: 20 to 39

Indian Point 1,2,3 (1962)
Rockland, NY ; Westchester, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	85	1.26	260	1.03	164	1.30	488	1.09
ALL CANCER, EXCL LEUK	694	1.07	2535	1.04	1130	1.03	4101	1.08
HODGKIN'S DISEASE	74	1.40	249	1.24	130	1.60	428	1.46
OTHER LYMPHOMA	44	1.34	165	1.33	98	1.50	310	1.34
MULTIPLE MYELOMA	3	1.02	14	1.28	12	2.35	28	1.64
DIGESTIVE ORGANS	125	1.05	466	1.05	154	0.90	611	1.05
STOMACH	19	0.71	102	1.04	27	0.87	103	0.99
COLON & RECTUM	71	1.23	220	1.01	71	0.87	288	1.03
LIVER (PRIMARY)	10	0.82	45	1.01	19	1.08	61	1.02
TRACHEA, BRONCHUS, LUNG	35	0.82	168	1.02	97	0.90	340	0.93
BREAST (FEMALE)	140	1.47	480	1.36	180	1.03	698	1.19
THYROID	1	0.45	9	1.08	6	1.94	7	0.65
BONES & JOINTS	11	0.99	53	1.31	24	1.30	74	1.09
BLADDER	1	0.30	9	0.76	1	0.26	12	0.93
BRAIN & OTHER C.N.S.	55	1.02	188	0.91	99	1.04	327	0.96
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	17	0.89	59	0.91

Table 1-B.6

Age at death: 20 to 39

Indian Point 1,2,3 (1962)
Rockland, NY ; Westchester, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.22	1.19	1.03	1.06
ALL CANCER, EXCL LEUK	1.03	0.95	0.96	1.04
HODGKIN'S DISEASE	1.13	1.10	1.14	1.18*
OTHER LYMPHOMA	1.01	1.12	1.12	1.01
MULTIPLE MYELOMA	0.80	1.43	2.30	1.28
DIGESTIVE ORGANS	1.00	0.86	0.86	1.00
STOMACH	0.68	0.88	1.23	0.95
COLON & RECTUM	1.22	0.84	0.71	1.02
LIVER (PRIMARY)	0.81	1.06	1.32	1.01
TRACHEA, BRONCHUS, LUNG	0.80	0.97	1.10	0.91
BREAST (FEMALE)	1.08	0.87	0.70**	0.88*
THYROID	0.42	2.98	4.31	0.60
BONES & JOINTS	0.76	1.19	1.31	0.83
BLADDER	0.39	0.28	0.87	1.22
BRAIN & OTHER C.N.S.	1.12	1.08	1.02	1.05
BENIGN & UNSPEC NEOPLASMS	-	0.98	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.6

Age at death: 40 to 59

Indian Point 1,2,3 (1962)
Rockland, NY ; Westchester, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	201	1.05	615	1.01	375	1.08	1320	1.05
ALL CANCER, EXCL LEUK	5583	1.08	17945	1.12	11198	1.02	40959	1.04
HODGKIN'S DISEASE	70	0.94	280	1.15	139	1.33	462	1.21
OTHER LYMPHOMA	164	1.12	515	1.10	374	1.10	1425	1.14
MULTIPLE MYELOMA	59	1.05	175	1.02	138	1.03	475	1.01
DIGESTIVE ORGANS	1765	1.16	5725	1.22	2818	1.11	10171	1.12
STOMACH	382	1.15	1236	1.22	458	1.22	1606	1.22
COLON & RECTUM	840	1.31	2578	1.30	1247	1.12	4642	1.15
LIVER (PRIMARY)	164	0.92	555	1.02	117	0.65	534	0.86
TRACHEA, BRONCHUS, LUNG	907	1.10	2885	1.10	2619	0.89	9509	0.89
BREAST (FEMALE)	904	1.25	2702	1.22	1971	1.27	6844	1.24
THYROID	19	0.94	81	1.31	28	1.06	129	1.37
BONES & JOINTS	31	0.85	93	0.82	37	0.91	155	1.07
BLADDER	86	0.95	302	1.10	131	1.00	529	1.11
BRAIN & OTHER C.N.S.	177	0.94	632	1.03	342	0.87	1387	0.96
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	86	1.12	293	1.06

Table 1-B.6

Age at death: 40 to 59

Indian Point 1,2,3 (1962)
Rockland, NY ; Westchester, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.04	1.03	1.03	1.04
ALL CANCER, EXCL LEUK	0.96*	0.98	0.94***	0.93***
HODGKIN'S DISEASE	0.82	1.10	1.41*	1.05
OTHER LYMPHOMA	1.02	0.96	0.98	1.04
MULTIPLE MYELOMA	1.03	1.02	0.98	0.99
DIGESTIVE ORGANS	0.95*	0.99	0.96	0.92***
STOMACH	0.94	1.00	1.06	1.00
COLON & RECTUM	1.01	0.97	0.85***	0.88***
LIVER (PRIMARY)	0.90	0.76**	0.71**	0.84**
TRACHEA, BRONCHUS, LUNG	1.00	1.00	0.81***	0.81***
BREAST (FEMALE)	1.02	1.02	1.02	1.02
THYROID	0.72	0.77	1.13	1.05
BONES & JOINTS	1.04	0.85	1.07	1.30
BLADDER	0.86	0.90	1.05	1.01
BRAIN & OTHER C.N.S.	0.91	0.91	0.93	0.93
BENIGN & UNSPEC NEOPLASMS	-	1.06	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.6

Age at death: 60 plus

Indian Point 1,2,3 (1962)
Rockland, NY ; Westchester, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	434	1.16	1190	1.03	1098	0.97	3584	0.99
ALL CANCER, EXCL LEUK	12020	1.15	38969	1.23	33472	1.13	108882	1.15
HODGKIN'S DISEASE	53	0.78	232	1.10	130	0.99	456	1.07
OTHER LYMPHOMA	225	1.03	692	1.02	988	1.14	2873	1.02
MULTIPLE MYELOMA	115	1.15	350	1.13	457	0.95	1562	1.03
DIGESTIVE ORGANS	5314	1.21	17283	1.29	12024	1.24	38767	1.26
STOMACH	1127	1.02	4296	1.29	1936	1.31	6335	1.37
COLON & RECTUM	2548	1.36	7834	1.37	6112	1.29	19420	1.29
LIVER (PRIMARY)	552	1.04	1709	1.06	567	0.93	1942	1.00
TRACHEA, BRONCHUS, LUNG	1495	1.22	5144	1.34	6895	1.07	22977	1.08
BREAST (FEMALE)	1040	1.25	3077	1.24	2960	1.27	9269	1.25
THYROID	49	1.01	166	1.13	129	1.37	365	1.23
BONES & JOINTS	55	0.80	224	1.06	99	1.00	321	1.01
BLADDER	508	1.30	1721	1.44	1189	1.24	3671	1.21
BRAIN & OTHER C.N.S.	127	1.28	369	1.18	543	1.09	1877	1.14
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	234	1.29	749	1.30

Table 1-B.6

Age at death: 60 plus

Indian Point 1,2,3 (1962)
Rockland, NY ; Westchester, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.13*	0.98	0.84**	0.96
ALL CANCER, EXCL LEUK	0.93***	0.98*	0.98	0.93***
HODGKIN'S DISEASE	0.71*	0.93	1.27	0.97
OTHER LYMPHOMA	1.01	1.12**	1.11	1.00
MULTIPLE MYELOMA	1.02	0.92	0.83	0.91
DIGESTIVE ORGANS	0.94***	0.98	1.02	0.98**
STOMACH	0.79***	0.96	1.28***	1.06**
COLON & RECTUM	0.99	1.00	0.95*	0.94***
LIVER (PRIMARY)	0.98	0.93	0.89	0.94
TRACHEA, BRONCHUS, LUNG	0.91**	0.99	0.88***	0.81***
BREAST (FEMALE)	1.01	1.02	1.02	1.01
THYROID	0.89	1.11	1.36	1.09
BONES & JOINTS	0.75	0.99	1.25	0.95
BLADDER	0.90*	1.02	0.95	0.84***
BRAIN & OTHER C.N.S.	1.08	0.96	0.85	0.97
BENIGN & UNSPEC NEOPLASMS	-	0.99	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.6

Age at death: all

Indian Point 1,2,3 (1962)
Rockland, NY ; Westchester, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	866	1.14	2602	1.04	1838	1.02	6171	1.02
ALL CANCER, EXCL LEUK	18444	1.12	60117	1.18	46088	1.10	155030	1.11
HODGKIN'S DISEASE	205	1.00	793	1.15	412	1.24	1425	1.23
OTHER LYMPHOMA	456	1.08	1459	1.07	1496	1.14	4734	1.07
MULTIPLE MYELOMA	177	1.11	539	1.10	607	0.98	2066	1.03
DIGESTIVE ORGANS	7215	1.19	23523	1.27	15015	1.21	49592	1.22
STOMACH	1528	1.04	5635	1.27	2423	1.28	8045	1.33
COLON & RECTUM	3460	1.34	10642	1.34	7434	1.25	24361	1.26
LIVER (PRIMARY)	734	1.01	2333	1.05	714	0.88	2563	0.97
TRACHEA, BRONCHUS, LUNG	2437	1.16	8202	1.24	9613	1.01	32836	1.02
BREAST (FEMALE)	2084	1.26	6260	1.24	5111	1.26	16812	1.24
THYROID	69	0.97	256	1.17	164	1.32	501	1.24
BONES & JOINTS	122	0.92	430	1.01	194	1.02	684	1.05
BLADDER	595	1.23	2032	1.37	1321	1.21	4214	1.19
BRAIN & OTHER C.N.S.	400	1.00	1449	1.08	1076	1.00	3896	1.04
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	358	1.22	1151	1.18

Table 1-B.6

Age at death: all

Indian Point 1,2,3 (1962)
Rockland, NY ; Westchester, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.10*	1.00	0.89*	0.98
ALL CANCER, EXCL LEUK	0.95***	0.99	0.98*	0.94***
HODGKIN'S DISEASE	0.87	1.01	1.24*	1.07
OTHER LYMPHOMA	1.01	1.07*	1.06	1.00
MULTIPLE MYELOMA	1.01	0.95	0.88	0.94
DIGESTIVE ORGANS	0.94***	0.99	1.02	0.96***
STOMACH	0.82***	0.96	1.23***	1.05**
COLON & RECTUM	1.00	0.99	0.93**	0.94***
LIVER (PRIMARY)	0.96	0.91*	0.87**	0.92**
TRACHEA, BRONCHUS, LUNG	0.94**	0.99	0.87***	0.82***
BREAST (FEMALE)	1.02	1.02	1.00	1.00
THYROID	0.83	1.06	1.36*	1.06
BONES & JOINTS	0.91	0.97	1.11	1.04
BLADDER	0.90*	1.02	0.98	0.87***
BRAIN & OTHER C.N.S.	0.93	0.96	1.00	0.96
BENIGN & UNSPEC NEOPLASMS	-	1.03	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.7

Age at death: under 10

Fermi 1 (1963)
Monroe, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	11	0.77	49	1.06	15	1.04	29	0.69
ALL CANCER, EXCL LEUK	18	1.23	48	1.01	12	0.73	47	0.98
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	1	2.01
OTHER LYMPHOMA	2	0.96	7	1.04	0	0.00	4	0.71
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	1.27	6	2.34	3	3.72	1	0.42
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	1	2.29	4	2.82	3	5.14	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	2	1.15	1	1.70	3	1.76
BLADDER	1	10.95	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	12	1.99	23	1.17	2	0.32	22	1.22
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	2	0.56

Table 1-B.7

Age at death: under 10

Fermi 1 (1963)
Monroe, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.73	1.51	1.35	0.65
ALL CANCER, EXCL LEUK	1.22	0.74	0.59	0.97
HODGKIN'S DISEASE	-	0.00	-	-
OTHER LYMPHOMA	0.92	0.00	0.00	0.68
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.54	8.86	2.93	0.18
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.81	-	2.24	0.00
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	0.97	-	1.53
BLADDER	-	-	0.00	-
BRAIN & OTHER C.N.S.	1.70	0.26	0.16*	1.04
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.7

Age at death: 10 to 19

Fermi 1 (1963)
Monroe, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	5	0.93	19	1.07	11	1.05	31	0.99
ALL CANCER, EXCL LEUK	12	1.20	30	0.90	17	0.90	64	1.12
HODGKIN'S DISEASE	1	0.92	7	1.90	3	1.98	5	1.07
OTHER LYMPHOMA	3	2.05	6	1.24	1	0.36	11	1.30
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	1.98	0	0.00	3	3.72	2	0.81
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	1	4.06	0	0.00
LIVER (PRIMARY)	1	6.80	0	0.00	2	5.74	2	1.89
TRACHEA, BRONCHUS, LUNG	1	8.18	1	2.41	0	0.00	2	3.62
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	1	8.58
BONES & JOINTS	2	1.07	3	0.48	1	0.29	13	1.23
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	3	1.16	7	0.82	4	0.83	16	1.11
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	1.14	2	0.76

Table 1-B.7

Age at death: 10 to 19

Fermi 1 (1963)
Monroe, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.87	1.06	1.13	0.93
ALL CANCER, EXCL LEUK	1.33	0.80	0.75	1.24
HODGKIN'S DISEASE	0.48	1.85	2.15	0.56
OTHER LYMPHOMA	1.65	0.28	0.18	1.05
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	4.59	1.88	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	3.04	0.84	-
TRACHEA, BRONCHUS, LUNG	3.39	0.00	0.00	1.50
BREAST (FEMALE)	-	-	-	-
THYROID	-	0.00	-	-
BONES & JOINTS	2.23	0.24	0.27	2.56
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.41	0.75	0.72	1.35
BENIGN & UNSPEC NEOPLASMS	-	1.50	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.7

Age at death: 20 to 39

Fermi 1 (1963)
Monroe, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	9	1.15	22	0.80	14	1.01	45	1.02
ALL CANCER, EXCL LEUK	74	1.06	262	1.07	107	0.95	315	0.90
HODGKIN'S DISEASE	7	1.09	31	1.39	10	1.09	26	0.90
OTHER LYMPHOMA	4	1.06	10	0.75	8	1.11	18	0.79
MULTIPLE MYELOMA	0	0.00	2	1.86	1	2.17	1	0.68
DIGESTIVE ORGANS	13	1.06	39	0.88	12	0.74	53	1.02
STOMACH	3	1.13	9	0.93	1	0.37	16	1.82
COLON & RECTUM	5	0.81	20	0.92	8	0.99	27	1.07
LIVER (PRIMARY)	4	3.30	2	0.45	0	0.00	2	0.38
TRACHEA, BRONCHUS, LUNG	7	1.50	15	0.89	10	0.94	22	0.67
BREAST (FEMALE)	12	1.27	41	1.26	14	0.84	42	0.85
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.76	4	0.86	5	2.37	5	0.73
BLADDER	0	0.00	1	0.87	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	8	1.27	22	1.00	6	0.56	44	1.33
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	3	1.48	8	1.24

Table 1-B.7

Age at death: 20 to 39

Fermi 1 (1963)
Monroe, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.44	0.99	0.88	1.28
ALL CANCER, EXCL LEUK	0.99	1.06	0.90	0.84*
HODGKIN'S DISEASE	0.78	1.21	1.00	0.65
OTHER LYMPHOMA	1.41	1.41	1.05	1.05
MULTIPLE MYELOMA	0.00	3.19	-	0.37
DIGESTIVE ORGANS	1.20	0.73	0.70	1.16
STOMACH	1.22	0.20	0.33	1.96
COLON & RECTUM	0.88	0.93	1.22	1.16
LIVER (PRIMARY)	7.33*	0.00	0.00	0.84
TRACHEA, BRONCHUS, LUNG	1.69	1.40	0.63	0.75
BREAST (FEMALE)	1.01	0.99	0.66	0.67
THYROID	-	-	-	-
BONES & JOINTS	0.88	3.25	3.12	0.85
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	1.27	0.42*	0.44	1.33
BENIGN & UNSPEC NEOPLASMS	-	1.19	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.7

Age at death: 40 to 59

Fermi 1 (1963)
Monroe, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	19	1.13	44	0.70	39	1.30	104	1.06
ALL CANCER, EXCL LEUK	427	0.97	1770	1.06	866	0.94	3108	1.01
HODGKIN'S DISEASE	8	1.19	22	0.87	6	0.66	18	0.61
OTHER LYMPHOMA	12	0.91	50	1.02	37	1.23	115	1.16
MULTIPLE MYELOMA	5	1.06	16	0.89	11	1.04	33	0.92
DIGESTIVE ORGANS	114	0.89	526	1.08	203	0.98	700	1.01
STOMACH	24	0.87	96	0.91	26	0.88	93	0.94
COLON & RECTUM	44	0.80	248	1.20	86	0.92	335	1.07
LIVER (PRIMARY)	16	1.08	65	1.15	16	1.19	41	0.89
TRACHEA, BRONCHUS, LUNG	66	0.88	311	1.11	223	0.88	805	0.96
BREAST (FEMALE)	61	1.03	206	0.92	126	0.98	432	1.01
THYROID	1	0.59	11	1.72	3	1.38	4	0.55
BONES & JOINTS	1	0.32	18	1.54	2	0.60	12	1.08
BLADDER	10	1.31	42	1.45	8	0.73	38	1.04
BRAIN & OTHER C.N.S.	12	0.70	67	1.05	31	0.88	128	1.12
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	6	0.90	26	1.19

Table 1-B.7

Age at death: 40 to 59

Fermi 1 (1963)
Monroe, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.61	1.23	1.15	1.51*
ALL CANCER, EXCL LEUK	0.92	0.93	0.97	0.95
HODGKIN'S DISEASE	1.37	1.08	0.55	0.70
OTHER LYMPHOMA	0.89	1.06	1.35	1.14
MULTIPLE MYELOMA	1.19	1.13	0.98	1.03
DIGESTIVE ORGANS	0.82	0.97	1.10	0.94
STOMACH	0.96	0.94	1.01	1.03
COLON & RECTUM	0.67*	0.86	1.15	0.89
LIVER (PRIMARY)	0.94	1.34	1.10	0.77
TRACHEA, BRONCHUS, LUNG	0.79	0.92	1.00	0.86*
BREAST (FEMALE)	1.12	0.97	0.95	1.10
THYROID	0.34	2.51	2.34	0.32
BONES & JOINTS	0.21	0.56	1.88	0.70
BLADDER	0.90	0.70	0.56	0.72
BRAIN & OTHER C.N.S.	0.67	0.79	1.26	1.07
BENIGN & UNSPEC NEOPLASMS	-	0.76	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.7

Age at death: 60 plus

Fermi 1 (1963)
Monroe, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	41	1.10	155	0.99	102	1.11	399	1.14
ALL CANCER, EXCL LEUK	1068	1.06	4584	1.08	2345	0.98	9657	1.07
HODGKIN'S DISEASE	5	0.76	19	0.69	6	0.57	37	0.92
OTHER LYMPHOMA	21	0.99	90	1.01	79	1.11	285	1.06
MULTIPLE MYELOMA	9	0.94	40	0.99	31	0.82	174	1.22
DIGESTIVE ORGANS	420	0.99	1843	1.02	774	1.01	2928	1.00
STOMACH	123	1.15	455	1.01	109	0.96	423	0.98
COLON & RECTUM	173	0.96	813	1.06	402	1.07	1479	1.03
LIVER (PRIMARY)	49	0.99	243	1.14	62	1.35	162	0.92
TRACHEA, BRONCHUS, LUNG	140	1.11	572	1.12	545	0.99	2183	1.08
BREAST (FEMALE)	74	1.06	379	1.21	162	0.91	692	1.00
THYROID	4	0.91	25	1.31	8	1.11	19	0.68
BONES & JOINTS	11	1.65	35	1.24	3	0.38	33	1.10
BLADDER	50	1.26	221	1.33	81	1.04	378	1.28
BRAIN & OTHER C.N.S.	7	0.73	42	1.07	43	1.02	144	0.92
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	15	1.02	43	0.77

Table 1-B.7

Age at death: 60 plus

Fermi 1 (1963)
Monroe, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.11	0.97	1.01	1.15
ALL CANCER, EXCL LEUK	0.98	0.92***	0.92*	0.99
HODGKIN'S DISEASE	1.10	0.62	0.75	1.33
OTHER LYMPHOMA	0.98	1.05	1.12	1.05
MULTIPLE MYELOMA	0.95	0.67*	0.87	1.23
DIGESTIVE ORGANS	0.97	1.01	1.02	0.98
STOMACH	1.14	0.98	0.83	0.97
COLON & RECTUM	0.91	1.04	1.11	0.97
LIVER (PRIMARY)	0.87	1.47*	1.36	0.81*
TRACHEA, BRONCHUS, LUNG	0.99	0.92	0.89	0.96
BREAST (FEMALE)	0.88	0.91	0.86	0.83**
THYROID	0.69	1.63	1.22	0.52*
BONES & JOINTS	1.33	0.35	0.23*	0.89
BLADDER	0.95	0.81	0.83	0.96
BRAIN & OTHER C.N.S.	0.68	1.11	1.40	0.86
BENIGN & UNSPEC NEOPLASMS	-	1.32	-	-

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-B.7

Age at death: all

Fermi 1 (1963)
Monroe, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	85	1.04	289	0.93	181	1.12	608	1.08
ALL CANCER, EXCL LEUK	1599	1.04	6694	1.07	3347	0.97	13191	1.05
HODGKIN'S DISEASE	21	1.00	79	0.99	25	0.82	87	0.84
OTHER LYMPHOMA	42	1.01	163	1.00	125	1.10	433	1.07
MULTIPLE MYELOMA	14	0.95	58	0.98	43	0.88	208	1.16
DIGESTIVE ORGANS	549	0.97	2414	1.03	995	1.00	3684	1.00
STOMACH	150	1.10	560	0.99	136	0.94	532	0.98
COLON & RECTUM	222	0.92	1081	1.08	497	1.04	1841	1.04
LIVER (PRIMARY)	71	1.07	314	1.14	83	1.34	207	0.90
TRACHEA, BRONCHUS, LUNG	214	1.03	899	1.11	778	0.96	3012	1.04
BREAST (FEMALE)	147	1.06	626	1.10	302	0.94	1166	1.00
THYROID	5	0.78	36	1.36	11	1.13	24	0.66
BONES & JOINTS	15	1.12	62	1.18	12	0.69	66	1.10
BLADDER	61	1.28	264	1.34	89	0.99	416	1.25
BRAIN & OTHER C.N.S.	42	1.01	161	1.05	86	0.87	354	1.05
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	25	0.98	81	0.90

Table 1-B.7

Age at death: all

Fermi 1 (1963)
Monroe, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.12	1.04	1.08	1.16*
ALL CANCER, EXCL LEUK	0.97	0.92***	0.93*	0.98
HODGKIN'S DISEASE	1.01	0.98	0.82	0.85
OTHER LYMPHOMA	1.01	1.03	1.09	1.07
MULTIPLE MYELOMA	0.97	0.76	0.93	1.18
DIGESTIVE ORGANS	0.94	1.00	1.03	0.97
STOMACH	1.11	0.96	0.85	0.99
COLON & RECTUM	0.85*	1.00	1.13	0.96
LIVER (PRIMARY)	0.94	1.49**	1.25	0.79**
TRACHEA, BRONCHUS, LUNG	0.93	0.92*	0.93	0.94
BREAST (FEMALE)	0.96	0.94	0.89	0.91
THYROID	0.57	1.71	1.45	0.49**
BONES & JOINTS	0.95	0.63	0.62	0.93
BLADDER	0.96	0.79	0.77	0.93
BRAIN & OTHER C.N.S.	0.96	0.83	0.86	1.00
BENIGN & UNSPEC NEOPLASMS	-	1.09	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.8

Age at death: under 10

Humboldt Bay (1963)
Humboldt, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	21	1.63	20	1.17	8	0.80	24	1.40
ALL CANCER, EXCL LEUK	10	0.75	16	0.91	13	1.13	29	1.44
HODGKIN'S DISEASE	0	0.00	1	3.25	0	0.00	1	5.01
OTHER LYMPHOMA	2	1.06	1	0.40	3	2.23	1	0.43
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	1	1.07	0	0.00	0	0.00
STOMACH	0	0.00	1	20.87	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	1	9.30	1	5.17
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	1	1.53	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	6	1.10	6	0.83	6	1.39	11	1.46
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	1.23	4	2.68

Table 1-B.8

Age at death: under 10

Humboldt Bay (1963)
Humboldt, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.39	0.57	0.49	1.20
ALL CANCER, EXCL LEUK	0.82	0.78	1.51	1.58
HODGKIN'S DISEASE	0.00	0.00	-	1.54
OTHER LYMPHOMA	2.65	5.19	2.10	1.08
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	0.00	-	-	0.00
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	1.80	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	-	-	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.33	0.95	1.26	1.76
BENIGN & UNSPEC NEOPLASMS	-	0.46	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.8

Age at death: 10 to 19

Humboldt Bay (1963)
Humboldt, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	2	0.40	3	0.42	13	1.68	15	1.10
ALL CANCER, EXCL LEUK	4	0.42	16	1.20	9	0.62	37	1.49
HODGKIN'S DISEASE	2	1.91	4	2.74	0	0.00	2	1.00
OTHER LYMPHOMA	0	0.00	2	1.02	0	0.00	6	1.63
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	1	1.47	1	1.55	2	1.82
STOMACH	0	0.00	0	0.00	0	0.00	1	17.41
COLON & RECTUM	0	0.00	1	3.60	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	1	3.73	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	1	4.18
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	2	0.81	2	0.75	6	1.31
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	1	0.41	4	1.16	3	0.84	10	1.59
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	1.55	1	0.89

Table 1-B.8

Age at death: 10 to 19

Humboldt Bay (1963)
Humboldt, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.95	1.53	4.20	2.62
ALL CANCER, EXCL LEUK	0.35	0.42*	1.48	1.24
HODGKIN'S DISEASE	0.70	0.00	0.00	0.36
OTHER LYMPHOMA	0.00	0.00	-	1.60
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	0.85	-	1.24
STOMACH	-	0.00	-	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	0.00	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	0.57	-	1.62
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.35	0.53	2.05	1.37
BENIGN & UNSPEC NEOPLASMS	-	1.74	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.8

Age at death: 20 to 39

Humboldt Bay (1963)
Humboldt, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3	0.37	13	1.20	12	0.88	25	1.18
ALL CANCER, EXCL LEUK	73	1.02	98	0.99	88	0.86	150	0.87
HODGKIN'S DISEASE	7	1.06	9	1.03	4	0.45	7	0.52
OTHER LYMPHOMA	5	1.27	5	0.94	8	1.16	10	0.90
MULTIPLE MYELOMA	1	3.20	0	0.00	0	0.00	1	1.35
DIGESTIVE ORGANS	16	1.26	22	1.22	10	0.67	16	0.62
STOMACH	0	0.00	10	2.53	4	1.58	2	0.46
COLON & RECTUM	8	1.27	8	0.90	2	0.27	7	0.56
LIVER (PRIMARY)	4	3.16	1	0.56	1	0.64	3	1.20
TRACHEA, BRONCHUS, LUNG	6	1.22	3	0.43	7	0.76	14	0.84
BREAST (FEMALE)	10	1.07	12	0.88	18	1.29	16	0.61
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.73	0	0.00	0	0.00	3	0.96
BLADDER	0	0.00	0	0.00	1	3.06	1	1.72
BRAIN & OTHER C.N.S.	7	1.08	5	0.57	9	0.90	13	0.79
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	3	1.56	4	1.31

Table 1-B.8

Age at death: 20 to 39

Humboldt Bay (1963)
Humboldt, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.31	0.75	2.38	0.98
ALL CANCER, EXCL LEUK	1.03	0.99	0.84	0.88
HODGKIN'S DISEASE	1.03	0.87	0.42	0.50
OTHER LYMPHOMA	1.35	1.29	0.91	0.96
MULTIPLE MYELOMA	-	0.00	0.00	-
DIGESTIVE ORGANS	1.03	1.08	0.53	0.51
STOMACH	0.00*	3.43	-	0.18*
COLON & RECTUM	1.41	0.48	0.21	0.62
LIVER (PRIMARY)	5.64	0.53	0.20	2.14
TRACHEA, BRONCHUS, LUNG	2.84	0.90	0.62	1.95
BREAST (FEMALE)	1.22	2.11*	1.21	0.69
THYROID	-	-	-	-
BONES & JOINTS	-	0.00	0.00	-
BLADDER	-	1.78	-	-
BRAIN & OTHER C.N.S.	1.89	1.14	0.83	1.39
BENIGN & UNSPEC NEOPLASMS	-	1.19	-	-

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-B.8

Age at death: 40 to 59

Humboldt Bay (1963)
Humboldt, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	18	1.01	26	0.92	16	0.62	67	1.33
ALL CANCER, EXCL LEUK	429	0.93	646	0.87	792	0.98	1558	0.99
HODGKIN'S DISEASE	5	0.69	8	0.70	5	0.64	17	1.16
OTHER LYMPHOMA	11	0.79	13	0.59	23	0.89	52	1.02
MULTIPLE MYELOMA	3	0.60	7	0.87	3	0.32	13	0.70
DIGESTIVE ORGANS	124	0.91	191	0.88	175	0.95	332	0.93
STOMACH	32	1.09	44	0.93	30	1.13	48	0.95
COLON & RECTUM	48	0.84	70	0.76	78	0.95	153	0.95
LIVER (PRIMARY)	14	0.91	24	0.97	13	1.05	21	0.90
TRACHEA, BRONCHUS, LUNG	69	0.84	101	0.77	255	1.15	471	1.07
BREAST (FEMALE)	56	0.95	85	0.91	112	1.03	211	0.98
THYROID	1	0.57	0	0.00	3	1.58	3	0.82
BONES & JOINTS	4	1.22	5	0.96	2	0.68	6	1.07
BLADDER	8	0.98	18	1.36	7	0.71	19	1.00
BRAIN & OTHER C.N.S.	11	0.60	15	0.52	20	0.67	51	0.87
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	9	1.58	11	0.99

Table 1-B.8

Age at death: 40 to 59

Humboldt Bay (1963)
Humboldt, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.10	0.47**	0.61	1.45
ALL CANCER, EXCL LEUK	1.07	0.99	1.05	1.14**
HODGKIN'S DISEASE	0.99	0.55	0.93	1.66
OTHER LYMPHOMA	1.34	0.87	1.13	1.73
MULTIPLE MYELOMA	0.69	0.46	0.53	0.80
DIGESTIVE ORGANS	1.03	1.02	1.04	1.06
STOMACH	1.17	1.19	1.04	1.02
COLON & RECTUM	1.11	1.00	1.13	1.25
LIVER (PRIMARY)	0.94	1.17	1.15	0.93
TRACHEA, BRONCHUS, LUNG	1.09	1.07	1.37*	1.39**
BREAST (FEMALE)	1.04	1.05	1.08	1.08
THYROID	-	1.93	2.77	-
BONES & JOINTS	1.27	0.64	0.56	1.11
BLADDER	0.72	0.71	0.72	0.74
BRAIN & OTHER C.N.S.	1.15	0.77	1.12	1.67
BENIGN & UNSPEC NEOPLASMS	-	1.60	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.8

Age at death: 60 plus

Humboldt Bay (1963)
Humboldt, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	33	0.90	72	1.12	100	1.09	219	1.14
ALL CANCER, EXCL LEUK	1035	1.04	1460	0.85	2539	1.07	4983	0.99
HODGKIN'S DISEASE	10	1.52	7	0.61	9	0.86	12	0.56
OTHER LYMPHOMA	28	1.33	28	0.76	89	1.27	150	1.00
MULTIPLE MYELOMA	10	1.04	9	0.54	42	1.12	69	0.86
DIGESTIVE ORGANS	441	1.06	639	0.88	770	1.01	1395	0.88
STOMACH	157	1.48	164	0.89	102	0.89	227	0.98
COLON & RECTUM	157	0.89	242	0.80	388	1.05	641	0.83
LIVER (PRIMARY)	35	0.72	78	0.93	39	0.85	93	1.00
TRACHEA, BRONCHUS, LUNG	139	1.07	205	0.90	558	1.00	1350	1.11
BREAST (FEMALE)	71	1.09	76	0.70	180	1.08	310	0.89
THYROID	4	0.94	6	0.83	7	1.01	14	0.98
BONES & JOINTS	5	0.76	6	0.52	9	1.16	12	0.76
BLADDER	43	1.10	61	0.89	99	1.26	165	1.01
BRAIN & OTHER C.N.S.	7	0.72	12	0.72	47	1.13	94	1.04
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	14	0.97	39	1.29

Table 1-B.8

Age at death: 60 plus

Humboldt Bay (1963)
Humboldt, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.80	0.96	1.21	1.02
ALL CANCER, EXCL LEUK	1.22***	1.08**	1.03	1.16***
HODGKIN'S DISEASE	2.49	1.54	0.57	0.92
OTHER LYMPHOMA	1.75	1.27	0.95	1.32
MULTIPLE MYELOMA	1.93	1.30	1.08	1.59
DIGESTIVE ORGANS	1.20**	1.15**	0.95	1.00
STOMACH	1.66***	0.91	0.60***	1.10
COLON & RECTUM	1.11	1.27***	1.18	1.04
LIVER (PRIMARY)	0.77	0.85	1.18	1.08
TRACHEA, BRONCHUS, LUNG	1.19	0.90*	0.93	1.23**
BREAST (FEMALE)	1.56*	1.21*	0.99	1.27
THYROID	1.13	1.03	1.07	1.18
BONES & JOINTS	1.46	1.53	1.53	1.46
BLADDER	1.24	1.25	1.15	1.13
BRAIN & OTHER C.N.S.	1.00	1.09	1.57	1.44
BENIGN & UNSPEC NEOPLASMS	-	0.75	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.8

Age at death: all

Humboldt Bay (1963)
Humboldt, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	77	0.96	134	1.05	149	1.00	350	1.19
ALL CANCER, EXCL LEUK	1551	1.00	2236	0.86	3441	1.04	6757	0.99
HODGKIN'S DISEASE	24	1.11	29	0.87	18	0.63	39	0.75
OTHER LYMPHOMA	46	1.09	49	0.71	123	1.16	219	1.01
MULTIPLE MYELOMA	14	0.93	16	0.63	45	0.95	83	0.84
DIGESTIVE ORGANS	581	1.03	854	0.89	956	0.99	1745	0.89
STOMACH	189	1.37	219	0.93	136	0.95	278	0.97
COLON & RECTUM	213	0.89	321	0.79	468	1.02	801	0.85
LIVER (PRIMARY)	53	0.81	103	0.93	54	0.89	117	0.97
TRACHEA, BRONCHUS, LUNG	214	0.99	309	0.84	821	1.04	1837	1.10
BREAST (FEMALE)	137	1.02	173	0.80	310	1.07	537	0.91
THYROID	5	0.79	6	0.57	10	1.09	17	0.92
BONES & JOINTS	10	0.74	14	0.65	13	0.81	27	0.91
BLADDER	51	1.07	79	0.96	107	1.20	185	1.01
BRAIN & OTHER C.N.S.	32	0.76	42	0.65	85	0.95	179	1.00
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	28	1.19	59	1.25

Table 1-B.8

Age at death: all

Humboldt Bay (1963)
Humboldt, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.91	0.84	1.04	1.13
ALL CANCER, EXCL LEUK	1.16***	1.05*	1.04	1.15***
HODGKIN'S DISEASE	1.28	0.84	0.57	0.86
OTHER LYMPHOMA	1.54	1.15	1.06	1.42*
MULTIPLE MYELOMA	1.48	1.13	1.02	1.33
DIGESTIVE ORGANS	1.16**	1.11**	0.96	1.00
STOMACH	1.47***	0.98	0.69**	1.04
COLON & RECTUM	1.13	1.20**	1.15	1.08
LIVER (PRIMARY)	0.87	0.92	1.10	1.04
TRACHEA, BRONCHUS, LUNG	1.18	0.95	1.05	1.31***
BREAST (FEMALE)	1.28*	1.18*	1.05	1.14
THYROID	1.39	1.18	1.38	1.61
BONES & JOINTS	1.14	0.89	1.09	1.40
BLADDER	1.11	1.19	1.12	1.05
BRAIN & OTHER C.N.S.	1.17	0.95	1.25	1.54*
BENIGN & UNSPEC NEOPLASMS	-	0.95	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.9

Age at death: under 10

Pathfinder (1964)
Lincoln, SD ; Minnehaha, SD

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	14	0.95	15	0.82	6	0.55	9	0.78
ALL CANCER, EXCL LEUK	17	1.14	23	1.23	18	1.42	12	0.90
HODGKIN'S DISEASE	0	0.00	0	0.00	1	8.07	0	0.00
OTHER LYMPHOMA	3	1.42	6	2.27	0	0.00	1	0.65
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	1	1.00	1	1.60	1	1.51
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	1	1.79	1	2.19	1	2.06
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	0	0.00	0	0.00
BLADDER	0	0.00	1	8.47	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	9	1.46	7	0.91	8	1.71	5	1.02
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	1	0.96

Table 1-B.9

Age at death: under 10

Pathfinder (1964)
Lincoln, SD ; Minnehaha, SD

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.16	0.71	0.58	0.95
ALL CANCER, EXCL LEUK	0.93	1.58	1.25	0.73
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	0.63	0.00	0.00	0.29
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	1.06	-	1.51
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.00	1.06	-	1.15
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	-	-	-
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	1.60	1.68	1.17	1.12
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.9

Age at death: 10 to 19

Pathfinder (1964)
Lincoln, SD ; Minnehaha, SD

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	11	2.05	5	0.64	7	0.84	13	1.25
ALL CANCER, EXCL LEUK	9	0.89	12	0.81	10	0.65	21	1.07
HODGKIN'S DISEASE	3	2.66	2	1.18	2	1.59	1	0.59
OTHER LYMPHOMA	0	0.00	2	0.93	5	2.22	6	2.10
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	1	1.31	0	0.00	1	1.17
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	1	8.19	0	0.00	1	6.60	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	2	1.06	0	0.00	1	0.35	5	1.36
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	1	0.38	3	0.80	1	0.26	5	1.06
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	0	0.00

Table 1-B.9

Age at death: 10 to 19

Pathfinder (1964)
Lincoln, SD ; Minnehaha, SD

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	3.20*	0.67	0.41	1.95
ALL CANCER, EXCL LEUK	1.10	0.61	0.73	1.32
HODGKIN'S DISEASE	2.25	2.69	0.60	0.50
OTHER LYMPHOMA	0.00	1.06	-	2.26
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	0.00	-	0.89
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	0.81	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	0.26	0.33	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.48	0.25	0.68	1.33
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.9

Age at death: 20 to 39

Pathfinder (1964)
Lincoln, SD ; Minnehaha, SD

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	12	1.42	5	0.47	15	1.20	11	0.76
ALL CANCER, EXCL LEUK	90	1.22	80	0.88	83	0.87	130	1.28
HODGKIN'S DISEASE	19	2.72	14	1.59	7	0.88	12	1.27
OTHER LYMPHOMA	5	1.22	2	0.39	5	0.79	12	1.68
MULTIPLE MYELOMA	0	0.00	0	0.00	1	2.69	0	0.00
DIGESTIVE ORGANS	15	1.16	17	1.08	10	0.74	19	1.36
STOMACH	4	1.44	2	0.60	2	0.91	0	0.00
COLON & RECTUM	6	0.92	9	1.13	6	0.90	12	1.74
LIVER (PRIMARY)	1	0.78	1	0.65	0	0.00	4	2.75
TRACHEA, BRONCHUS, LUNG	5	1.01	1	0.17	4	0.47	6	0.70
BREAST (FEMALE)	11	1.11	12	1.01	12	0.89	20	1.51
THYROID	1	3.92	1	3.20	1	3.77	1	3.51
BONES & JOINTS	1	0.70	4	2.08	2	1.01	5	1.94
BLADDER	0	0.00	0	0.00	0	0.00	2	6.59
BRAIN & OTHER C.N.S.	4	0.59	3	0.36	12	1.29	17	1.65
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	0.55	2	0.98

Table 1-B.9

Age at death: 20 to 39

Pathfinder (1964)
Lincoln, SD ; Minnehaha, SD

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	3.02	1.58	0.85	1.62
ALL CANCER, EXCL LEUK	1.39*	0.68**	0.71*	1.45*
HODGKIN'S DISEASE	1.71	0.69	0.32*	0.80
OTHER LYMPHOMA	3.13	0.47	0.65	4.31
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.07	0.54	0.64	1.26
STOMACH	2.40	-	0.63	0.00
COLON & RECTUM	0.81	0.52	0.98	1.54
LIVER (PRIMARY)	1.20	0.00	0.00	4.23
TRACHEA, BRONCHUS, LUNG	5.94	0.67	0.47	4.12
BREAST (FEMALE)	1.10	0.59	0.80	1.50
THYROID	1.23	1.07	0.96	1.10
BONES & JOINTS	0.34	0.52	1.44	0.93
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	1.64	0.78	2.19	4.58**
BENIGN & UNSPEC NEOPLASMS	-	0.56	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.9

Age at death: 40 to 59

Pathfinder (1964)
Lincoln, SD ; Minnehaha, SD

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	23	1.21	26	0.99	32	1.26	22	0.74
ALL CANCER, EXCL LEUK	462	0.92	540	0.78	699	0.89	778	0.84
HODGKIN'S DISEASE	4	0.53	17	1.65	5	0.67	11	1.25
OTHER LYMPHOMA	8	0.54	18	0.87	20	0.77	26	0.86
MULTIPLE MYELOMA	5	0.94	7	0.95	5	0.55	12	1.14
DIGESTIVE ORGANS	137	0.95	153	0.76	187	1.06	223	1.07
STOMACH	30	0.99	40	0.94	21	0.86	29	1.01
COLON & RECTUM	58	0.92	59	0.67	85	1.06	121	1.27
LIVER (PRIMARY)	8	0.48	16	0.69	10	0.91	7	0.54
TRACHEA, BRONCHUS, LUNG	56	0.67	58	0.50	178	0.81	158	0.62
BREAST (FEMALE)	89	1.28	104	1.09	102	0.91	122	0.94
THYROID	3	1.56	0	0.00	0	0.00	1	0.46
BONES & JOINTS	0	0.00	3	0.63	3	1.08	1	0.30
BLADDER	14	1.65	2	0.17	8	0.86	6	0.54
BRAIN & OTHER C.N.S.	12	0.62	30	1.13	16	0.54	36	1.03
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	2	0.34	4	0.59

Table 1-B.9

Age at death: 40 to 59

Pathfinder (1964)
Lincoln, SD ; Minnehaha, SD

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.22	1.70	1.04	0.75
ALL CANCER, EXCL LEUK	1.18**	1.06	0.97	1.08
HODGKIN'S DISEASE	0.32*	0.54	1.26	0.76
OTHER LYMPHOMA	0.62	0.90	1.43	0.99
MULTIPLE MYELOMA	0.99	0.48	0.59	1.20
DIGESTIVE ORGANS	1.25	0.99	1.12	1.41***
STOMACH	1.05	0.85	0.87	1.07
COLON & RECTUM	1.37	0.83	1.15	1.90***
LIVER (PRIMARY)	0.70	1.69	1.90	0.78
TRACHEA, BRONCHUS, LUNG	1.34	1.31*	1.21	1.24
BREAST (FEMALE)	1.17	0.97	0.71*	0.86
THYROID	-	0.00	0.00	-
BONES & JOINTS	0.00	3.60	-	0.48
BLADDER	9.71***	1.59	0.52	3.18
BRAIN & OTHER C.N.S.	0.55	0.52*	0.87	0.91
BENIGN & UNSPEC NEOPLASMS	-	0.58	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.9

Age at death: 60 plus

Pathfinder (1964)
Lincoln, SD ; Minnehaha, SD

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	66	1.27	108	1.38	104	0.92	181	1.17
ALL CANCER, EXCL LEUK	1365	0.98	1995	0.96	2746	0.98	3487	0.91
HODGKIN'S DISEASE	11	1.21	20	1.48	15	1.23	24	1.44
OTHER LYMPHOMA	37	1.24	51	1.15	99	1.16	119	1.03
MULTIPLE MYELOMA	19	1.42	23	1.16	47	1.05	67	1.11
DIGESTIVE ORGANS	599	1.02	877	1.00	919	1.00	1199	0.95
STOMACH	180	1.25	260	1.19	160	1.21	185	1.01
COLON & RECTUM	232	0.92	350	0.93	440	0.96	599	0.95
LIVER (PRIMARY)	61	0.89	78	0.76	35	0.67	51	0.71
TRACHEA, BRONCHUS, LUNG	128	0.75	169	0.66	484	0.78	578	0.69
BREAST (FEMALE)	117	1.15	177	1.20	252	1.15	288	1.01
THYROID	3	0.49	8	0.87	5	0.57	14	1.18
BONES & JOINTS	11	1.22	9	0.66	7	0.76	17	1.33
BLADDER	45	0.82	59	0.71	99	1.04	117	0.88
BRAIN & OTHER C.N.S.	16	1.22	22	1.15	57	1.19	62	0.97
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	21	1.15	23	0.93

Table 1-B.9

Age at death: 60 plus

Pathfinder (1964)
Lincoln, SD ; Minnehaha, SD

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.92	0.79	0.72	0.85
ALL CANCER, EXCL LEUK	1.02	1.08**	1.00	0.95
HODGKIN'S DISEASE	0.82	0.85	1.02	0.97
OTHER LYMPHOMA	1.08	1.13	0.94	0.90
MULTIPLE MYELOMA	1.22	0.95	0.74	0.96
DIGESTIVE ORGANS	1.02	1.05	0.98	0.95
STOMACH	1.05	1.20	0.97	0.85
COLON & RECTUM	0.99	1.01	1.04	1.02
LIVER (PRIMARY)	1.17	0.94	0.75	0.93
TRACHEA, BRONCHUS, LUNG	1.14	1.13*	1.04	1.05
BREAST (FEMALE)	0.96	1.14	1.00	0.84
THYROID	0.56	0.48	1.16	1.36
BONES & JOINTS	1.85	0.57	0.62	2.02
BLADDER	1.15	1.18	1.27	1.24
BRAIN & OTHER C.N.S.	1.06	1.23	0.98	0.84
BENIGN & UNSPEC NEOPLASMS	-	1.24	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.9

Age at death: all

Pathfinder (1964)
Lincoln, SD ; Minnehaha, SD

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	126	1.27	159	1.13	164	0.97	236	1.07
ALL CANCER, EXCL LEUK	1943	0.98	2650	0.91	3556	0.95	4428	0.90
HODGKIN'S DISEASE	37	1.48	53	1.53	30	1.03	48	1.31
OTHER LYMPHOMA	53	1.01	79	1.06	129	1.06	164	1.04
MULTIPLE MYELOMA	24	1.26	30	1.09	53	0.98	79	1.11
DIGESTIVE ORGANS	751	1.01	1049	0.95	1117	1.01	1443	0.97
STOMACH	214	1.21	302	1.14	183	1.15	214	1.00
COLON & RECTUM	296	0.92	418	0.88	531	0.97	732	1.00
LIVER (PRIMARY)	70	0.80	96	0.75	46	0.71	63	0.72
TRACHEA, BRONCHUS, LUNG	190	0.73	228	0.60	667	0.79	742	0.67
BREAST (FEMALE)	217	1.20	293	1.15	366	1.07	430	1.00
THYROID	7	0.83	9	0.74	6	0.55	16	1.11
BONES & JOINTS	14	0.86	16	0.67	13	0.75	28	1.23
BLADDER	59	0.93	62	0.65	107	1.02	125	0.86
BRAIN & OTHER C.N.S.	42	0.87	65	0.99	94	0.98	125	1.06
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	24	0.87	30	0.84

Table 1-B.9

Age at death: all

Pathfinder (1964)
Lincoln, SD ; Minnehaha, SD

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.12	0.91	0.76*	0.95
ALL CANCER, EXCL LEUK	1.08*	1.06*	0.97	0.99
HODGKIN'S DISEASE	0.97	0.79	0.70	0.86
OTHER LYMPHOMA	0.95	1.02	1.05	0.98
MULTIPLE MYELOMA	1.16	0.88	0.78	1.02
DIGESTIVE ORGANS	1.06	1.04	1.00	1.02
STOMACH	1.06	1.15	0.95	0.88
COLON & RECTUM	1.05	0.97	1.05	1.14*
LIVER (PRIMARY)	1.07	0.99	0.89	0.96
TRACHEA, BRONCHUS, LUNG	1.22	1.18**	1.08	1.12
BREAST (FEMALE)	1.04	1.07	0.89	0.87
THYROID	1.12	0.50	0.66	1.50
BONES & JOINTS	1.28	0.61	0.87	1.84
BLADDER	1.43	1.19	1.10	1.32
BRAIN & OTHER C.N.S.	0.88	0.92	1.13	1.07
BENIGN & UNSPEC NEOPLASMS	-	1.04	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.10(MORT)

Age at death: under 10

Haddam Neck (1967)
Middlesex, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	14	1.07	45	1.12	9	1.14	18	0.76
ALL CANCER, EXCL LEUK	19	1.42	35	0.86	9	0.96	24	0.85
HODGKIN'S DISEASE	1	4.68	1	1.54	0	0.00	0	0.00
OTHER LYMPHOMA	2	1.07	3	0.53	1	0.94	3	0.94
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	3	4.30	1	0.47	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	3	7.47	1	0.81	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	1	3.60
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	2.06	2	1.34	1	3.04	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	6	1.09	15	0.90	2	0.58	8	0.77
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	1	0.36

Age at death: under 10

Haddam Neck (1967)
Middlesex, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.96	1.50	1.07	0.68
ALL CANCER, EXCL LEUK	1.65	1.13	0.68	0.99
HODGKIN'S DISEASE	3.04	-	0.00	0.00
OTHER LYMPHOMA	2.02	1.00	0.88	1.77
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	9.15	-	0.00	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	9.22	-	0.00	0.00
TRACHEA, BRONCHUS, LUNG	-	0.00	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.54	-	1.48	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.21	0.75	0.53	0.86
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.10(MORT)

Age at death: 10 to 19

Haddam Neck (1967)
Middlesex, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	7	1.26	16	0.92	10	1.43	15	0.73
ALL CANCER, EXCL LEUK	6	0.57	21	0.63	10	0.79	29	0.78
HODGKIN'S DISEASE	1	0.86	3	0.81	0	0.00	7	2.48
OTHER LYMPHOMA	1	0.64	2	0.41	1	0.54	3	0.55
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.51	7	1.14	2	0.86	2	0.29
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	3	0.36	1	0.31	12	1.26
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	6	2.78

Table 1-B.10(MORT)

Age at death: 10 to 19

Haddam Neck (1967)
Middlesex, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.37	1.96	1.13	0.79
ALL CANCER, EXCL LEUK	0.90	1.01	1.39	1.24
HODGKIN'S DISEASE	1.06	0.00	0.00	3.06
OTHER LYMPHOMA	1.56	0.98	0.84	1.34
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.45	2.97	1.69	0.25
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.00	0.25	-	3.50
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.10(MORT)

Age at death: 20 to 39

Haddam Neck (1967)
Middlesex, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	5	0.54	23	0.85	9	0.75	32	0.94
ALL CANCER, EXCL LEUK	71	0.85	225	0.94	87	0.92	263	1.00
HODGKIN'S DISEASE	9	1.16	36	1.59	8	1.10	27	1.29
OTHER LYMPHOMA	6	1.30	17	1.27	7	1.13	11	0.63
MULTIPLE MYELOMA	0	0.00	2	1.97	0	0.00	1	0.95
DIGESTIVE ORGANS	15	1.04	40	0.97	12	0.87	22	0.59
STOMACH	5	1.65	5	0.58	0	0.00	1	0.16
COLON & RECTUM	9	1.25	23	1.12	9	1.34	8	0.43
LIVER (PRIMARY)	1	0.70	6	1.49	1	0.73	5	1.37
TRACHEA, BRONCHUS, LUNG	3	0.49	13	0.76	8	0.88	25	1.01
BREAST (FEMALE)	12	1.04	27	0.82	10	0.71	40	1.04
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.66	4	0.89	3	1.62	7	1.30
BLADDER	0	0.00	1	0.99	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	3	0.40	17	0.79	9	0.98	21	0.81
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	2	0.94	8	1.36

Table 1-B.10(MORT)

Age at death: 20 to 39

Haddam Neck (1967)
Middlesex, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.64	0.80	1.39	1.11
ALL CANCER, EXCL LEUK	0.90	0.92	1.08	1.06
HODGKIN'S DISEASE	0.73	0.85	0.95	0.81
OTHER LYMPHOMA	1.02	1.79	0.87	0.50
MULTIPLE MYELOMA	0.00	0.00	-	0.48
DIGESTIVE ORGANS	1.07	1.47	0.84	0.61
STOMACH	2.84	0.00	0.00	0.28
COLON & RECTUM	1.12	3.12*	1.07	0.38*
LIVER (PRIMARY)	0.47	0.53	1.04	0.92
TRACHEA, BRONCHUS, LUNG	0.64	0.87	1.80	1.33
BREAST (FEMALE)	1.27	0.68	0.68	1.27
THYROID	-	-	-	-
BONES & JOINTS	0.74	1.25	2.45	1.46
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	0.51	1.21	2.45	1.03
BENIGN & UNSPEC NEOPLASMS	-	0.69	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.10(MORT)

Age at death: 40 to 59

Haddam Neck (1967)
Middlesex, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	23	1.00	57	0.87	24	0.93	65	0.93
ALL CANCER, EXCL LEUK	596	0.96	1697	0.96	774	0.94	2104	0.95
HODGKIN'S DISEASE	8	0.86	23	0.87	6	0.85	27	1.40
OTHER LYMPHOMA	18	0.94	63	1.16	33	1.24	55	0.76
MULTIPLE MYELOMA	10	1.51	17	0.91	7	0.72	19	0.74
DIGESTIVE ORGANS	160	0.92	477	0.96	170	0.94	488	1.00
STOMACH	35	1.01	101	1.02	30	1.21	75	1.13
COLON & RECTUM	74	0.98	232	1.07	62	0.75	244	1.10
LIVER (PRIMARY)	14	0.73	40	0.73	11	1.03	16	0.56
TRACHEA, BRONCHUS, LUNG	103	0.92	277	0.87	237	1.01	568	0.90
BREAST (FEMALE)	90	1.02	274	1.09	108	0.93	307	0.99
THYROID	3	1.34	6	0.94	2	1.08	4	0.80
BONES & JOINTS	3	0.76	13	1.15	4	1.45	5	0.67
BLADDER	11	1.10	39	1.37	7	0.74	30	1.17
BRAIN & OTHER C.N.S.	20	0.84	63	0.93	26	0.84	81	0.96
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	5	0.70	16	0.83

Table 1-B.10(MORT)

Age at death: 40 to 59

Haddam Neck (1967)
Middlesex, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.15	1.00	0.93	1.07
ALL CANCER, EXCL LEUK	1.00	0.99	0.98	0.99
HODGKIN'S DISEASE	0.99	0.61	0.99	1.61
OTHER LYMPHOMA	0.81	1.63*	1.32	0.66*
MULTIPLE MYELOMA	1.66	0.97	0.48	0.81
DIGESTIVE ORGANS	0.96	0.94	1.02	1.04
STOMACH	0.99	1.07	1.20	1.11
COLON & RECTUM	0.92	0.68**	0.77	1.03
LIVER (PRIMARY)	1.00	1.84	1.41	0.77
TRACHEA, BRONCHUS, LUNG	1.06	1.12	1.10	1.03
BREAST (FEMALE)	0.94	0.94	0.91	0.91
THYROID	1.43	1.35	0.81	0.85
BONES & JOINTS	0.66	2.16	1.91	0.58
BLADDER	0.80	0.63	0.67	0.85
BRAIN & OTHER C.N.S.	0.90	0.88	1.00	1.03
BENIGN & UNSPEC NEOPLASMS	-	0.84	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.10(MORT)

Age at death: 60 plus

Haddam Neck (1967)
Middlesex, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	52	0.78	167	0.93	106	1.02	248	0.90
ALL CANCER, EXCL LEUK	1621	0.92	5355	1.13	2726	1.02	7392	1.05
HODGKIN'S DISEASE	11	0.99	31	1.02	5	0.46	39	1.34
OTHER LYMPHOMA	31	0.79	149	1.39	76	0.92	221	1.02
MULTIPLE MYELOMA	15	0.84	38	0.78	47	1.08	120	1.05
DIGESTIVE ORGANS	695	0.96	2328	1.20	914	1.08	2502	1.12
STOMACH	173	1.02	555	1.23	133	1.14	373	1.21
COLON & RECTUM	318	1.00	1036	1.21	449	1.06	1256	1.13
LIVER (PRIMARY)	69	0.84	235	1.07	38	0.86	115	0.99
TRACHEA, BRONCHUS, LUNG	208	0.92	619	1.00	637	1.02	1505	0.91
BREAST (FEMALE)	113	0.84	411	1.14	237	1.14	637	1.16
THYROID	14	1.82	22	1.06	9	1.13	20	0.95
BONES & JOINTS	8	0.74	25	0.87	9	1.11	12	0.56
BLADDER	69	1.01	201	1.11	74	0.86	221	0.97
BRAIN & OTHER C.N.S.	12	0.72	47	1.01	47	0.96	124	0.95
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	22	1.13	65	1.26

Table 1-B.10(MORT)

Age at death: 60 plus

Haddam Neck (1967)
Middlesex, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.84	1.13	1.31	0.97
ALL CANCER, EXCL LEUK	0.81***	0.97	1.11**	0.93***
HODGKIN'S DISEASE	0.97	0.34*	0.46	1.31
OTHER LYMPHOMA	0.57**	0.90	1.16	0.73**
MULTIPLE MYELOMA	1.08	1.03	1.29	1.35
DIGESTIVE ORGANS	0.80***	0.96	1.13*	0.93*
STOMACH	0.83*	0.94	1.12	0.98
COLON & RECTUM	0.83**	0.94	1.06	0.93
LIVER (PRIMARY)	0.79	0.87	1.02	0.93
TRACHEA, BRONCHUS, LUNG	0.92	1.12*	1.11	0.91
BREAST (FEMALE)	0.74**	0.98	1.36**	1.02
THYROID	1.72	1.19	0.62	0.90
BONES & JOINTS	0.85	1.98	1.50	0.64
BLADDER	0.91	0.89	0.85	0.87
BRAIN & OTHER C.N.S.	0.71	1.01	1.33	0.94
BENIGN & UNSPEC NEOPLASMS	-	0.90	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.10(MORT)

Age at death: all

Haddam Neck (1967)
Middlesex, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	101	0.86	308	0.93	158	1.01	378	0.89
ALL CANCER, EXCL LEUK	2313	0.93	7333	1.08	3606	1.00	9812	1.02
HODGKIN'S DISEASE	30	1.02	94	1.12	19	0.72	100	1.38
OTHER LYMPHOMA	58	0.87	234	1.26	118	1.00	293	0.93
MULTIPLE MYELOMA	25	1.00	57	0.83	54	1.00	140	0.99
DIGESTIVE ORGANS	873	0.95	2846	1.15	1096	1.05	3012	1.09
STOMACH	213	1.02	661	1.18	163	1.13	449	1.18
COLON & RECTUM	401	1.00	1291	1.18	520	1.01	1508	1.11
LIVER (PRIMARY)	87	0.84	282	1.00	50	0.88	136	0.91
TRACHEA, BRONCHUS, LUNG	314	0.92	909	0.95	882	1.01	2099	0.91
BREAST (FEMALE)	215	0.91	712	1.10	355	1.05	984	1.09
THYROID	17	1.66	28	1.00	11	1.09	24	0.89
BONES & JOINTS	14	0.75	51	0.97	19	1.24	26	0.62
BLADDER	80	1.02	241	1.14	81	0.84	251	0.99
BRAIN & OTHER C.N.S.	41	0.73	145	0.90	85	0.89	246	0.94
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	29	0.95	96	1.18

Table 1-B.10(MORT)

Age at death: all

Haddam Neck (1967)
Middlesex, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.92	1.13	1.17	0.96
ALL CANCER, EXCL LEUK	0.86***	0.98	1.08**	0.94***
HODGKIN'S DISEASE	0.91	0.52**	0.71	1.23
OTHER LYMPHOMA	0.69*	1.08	1.15	0.74***
MULTIPLE MYELOMA	1.20	1.01	1.00	1.19
DIGESTIVE ORGANS	0.83***	0.96	1.11*	0.95
STOMACH	0.86	0.96	1.11	1.00
COLON & RECTUM	0.85**	0.91	1.01	0.94
LIVER (PRIMARY)	0.84	0.97	1.05	0.91
TRACHEA, BRONCHUS, LUNG	0.97	1.11**	1.10	0.96
BREAST (FEMALE)	0.83*	0.96	1.15	0.99
THYROID	1.66	1.22	0.66	0.89
BONES & JOINTS	0.77	2.00*	1.65	0.64
BLADDER	0.89	0.85	0.82	0.87
BRAIN & OTHER C.N.S.	0.81	0.95	1.22	1.04
BENIGN & UNSPEC NEOPLASMS	-	0.81	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.10(INC)

Age at diagnosis: under 10

Haddam Neck (1967)
Middlesex, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	15	0.98	44	0.94	16	0.97	37	0.74
ALL CANCER, EXCL LEUK	23	0.86	70	0.86	29	1.06	75	0.90
HODGKIN'S DISEASE	0	0.00	3	1.41	0	0.00	2	0.81
OTHER LYMPHOMA	1	0.49	7	1.13	5	2.19	7	1.00
MULTIPLE MYELOMA	0	-	0	-	0	-	0	-
DIGESTIVE ORGANS	4	3.37	3	0.84	1	0.78	5	1.22
STOMACH	0	-	0	-	0	-	0	-
COLON & RECTUM	0	-	0	-	0	-	0	-
LIVER (PRIMARY)	3	6.32	2	1.36	0	0.00	2	1.09
TRACHEA, BRONCHUS, LUNG	0	0.00	1	7.23	0	0.00	0	0.00
BREAST (FEMALE)	0	-	0	-	0	-	0	-
THYROID	0	0.00	0	0.00	0	0.00	2	1.70
BONES & JOINTS	2	1.78	3	0.87	0	0.00	4	1.50
BLADDER	0	0.00	0	0.00	0	0.00	1	2.29
BRAIN & OTHER C.N.S.	6	0.72	17	0.67	8	1.04	20	0.86

Table 1-B.10(INC)

Age at diagnosis: under 10

Haddam Neck (1967)
Middlesex, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.04	1.31	0.99	0.79
ALL CANCER, EXCL LEUK	1.00	1.18	1.23	1.05
HODGKIN'S DISEASE	0.00	0.00	-	0.57
OTHER LYMPHOMA	0.43	2.19	4.47	0.88
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	4.01	0.64	0.23	1.45
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	4.65	0.00	0.00	0.80
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	0.00	-	-
BONES & JOINTS	2.05	0.00	0.00	1.72
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	1.07	1.21	1.44	1.28

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.10(INC)

Age at diagnosis: 10 to 19

Haddam Neck (1967)
Middlesex, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	8	1.38	11	0.61	8	0.90	24	0.91
ALL CANCER, EXCL LEUK	16	0.66	54	0.71	42	0.92	120	0.87
HODGKIN'S DISEASE	2	0.40	14	0.88	8	0.70	35	1.02
OTHER LYMPHOMA	0	0.00	4	0.50	6	1.32	8	0.59
MULTIPLE MYELOMA	0	-	0	-	0	-	0	-
DIGESTIVE ORGANS	0	0.00	1	0.51	2	1.40	3	0.72
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	2	3.09	1	0.53
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	1	1.07
TRACHEA, BRONCHUS, LUNG	0	0.00	1	2.05	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	1	2.67	0	0.00	0	0.00
THYROID	1	0.99	2	0.61	3	1.30	3	0.41
BONES & JOINTS	4	1.32	11	1.16	4	0.85	9	0.65
BLADDER	0	0.00	1	2.67	1	1.83	0	0.00
BRAIN & OTHER C.N.S.	1	0.26	8	0.66	6	0.86	23	1.10

Table 1-B.10(INC)

Age at diagnosis: 10 to 19

Haddam Neck (1967)
Middlesex, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	2.26	0.99	0.65	1.49
ALL CANCER, EXCL LEUK	0.93	1.06	1.39	1.23
HODGKIN'S DISEASE	0.45	0.69	1.75	1.16
OTHER LYMPHOMA	0.00	2.24	-	1.18
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	1.94	-	1.41
STOMACH	-	-	-	-
COLON & RECTUM	-	5.83	-	-
LIVER (PRIMARY)	-	0.00	-	-
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	0.00	-	-	0.00
THYROID	1.62	3.17	1.31	0.67
BONES & JOINTS	1.14	1.31	0.64	0.56
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	0.39	0.78	3.31	1.67

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Age at diagnosis: 20 to 39

Haddam Neck (1967)
Middlesex, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	8	0.78	29	0.97	16	0.93	50	1.03
ALL CANCER, EXCL LEUK	206	0.89	561	0.84	390	1.03	1005	0.95
HODGKIN'S DISEASE	16	0.92	45	0.87	28	0.79	95	0.91
OTHER LYMPHOMA	14	1.33	36	1.19	20	1.25	31	0.68
MULTIPLE MYELOMA	0	0.00	3	1.61	1	0.75	5	1.44
DIGESTIVE ORGANS	29	1.10	70	0.93	29	1.09	59	0.81
STOMACH	6	1.33	5	0.39	4	1.14	4	0.43
COLON & RECTUM	21	1.24	50	1.02	18	1.09	39	0.86
LIVER (PRIMARY)	1	1.45	2	1.03	4	3.50	1	0.32
TRACHEA, BRONCHUS, LUNG	8	1.14	15	0.77	17	1.06	46	1.04
BREAST (FEMALE)	48	0.98	95	0.68	71	0.99	195	0.99
THYROID	7	0.66	25	0.80	23	0.86	58	0.76
BONES & JOINTS	1	0.43	7	1.01	4	1.01	14	1.20
BLADDER	2	0.50	10	0.86	9	1.06	24	0.99
BRAIN & OTHER C.N.S.	6	0.59	26	0.87	14	0.80	53	1.05

Table 1-B.10(INC)

Age at diagnosis: 20 to 39

Haddam Neck (1967)
Middlesex, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.80	0.90	1.19	1.06
ALL CANCER, EXCL LEUK	1.06	1.08	1.16	1.13*
HODGKIN'S DISEASE	1.06	0.87	0.86	1.05
OTHER LYMPHOMA	1.12	1.84	0.94	0.57*
MULTIPLE MYELOMA	0.00	0.52	-	0.89
DIGESTIVE ORGANS	1.18	1.35	0.99	0.87
STOMACH	3.41	2.65	0.86	1.10
COLON & RECTUM	1.22	1.27	0.88	0.84
LIVER (PRIMARY)	1.41	10.94*	2.41	0.31
TRACHEA, BRONCHUS, LUNG	1.48	1.02	0.93	1.35
BREAST (FEMALE)	1.44*	1.00	1.01	1.46**
THYROID	0.83	1.13	1.30	0.95
BONES & JOINTS	0.43	0.84	2.35	1.19
BLADDER	0.58	1.07	2.12	1.15
BRAIN & OTHER C.N.S.	0.68	0.76	1.36	1.21

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Age at diagnosis: 40 to 59

Haddam Neck (1967)
Middlesex, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	35	1.16	78	0.90	42	1.02	105	0.94
ALL CANCER, EXCL LEUK	1260	0.96	3253	0.87	1905	0.97	4914	0.93
HODGKIN'S DISEASE	15	1.14	24	0.64	11	0.70	52	1.20
OTHER LYMPHOMA	35	0.99	109	1.09	69	1.14	153	0.93
MULTIPLE MYELOMA	12	1.35	23	0.91	15	0.88	38	0.85
DIGESTIVE ORGANS	301	0.95	777	0.86	350	0.92	972	0.95
STOMACH	43	0.82	131	0.87	35	0.79	102	0.85
COLON & RECTUM	193	0.99	498	0.89	214	0.89	642	0.99
LIVER (PRIMARY)	8	1.66	11	0.82	13	1.35	20	0.77
TRACHEA, BRONCHUS, LUNG	139	1.02	309	0.80	336	1.15	765	0.98
BREAST (FEMALE)	231	0.85	674	0.87	406	0.93	1059	0.91
THYROID	10	0.80	26	0.73	26	1.09	43	0.67
BONES & JOINTS	5	1.79	6	0.75	6	2.41	5	0.74
BLADDER	42	1.07	111	0.99	65	0.75	231	0.98
BRAIN & OTHER C.N.S.	30	1.00	79	0.92	37	0.92	106	0.97

Table 1-B.10(INC)

Age at diagnosis: 40 to 59

Haddam Neck (1967)
Middlesex, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.29	1.09	0.88	1.04
ALL CANCER, EXCL LEUK	1.10**	1.04	1.01	1.07**
HODGKIN'S DISEASE	1.78	0.58	0.61	1.88*
OTHER LYMPHOMA	0.91	1.23	1.15	0.85
MULTIPLE MYELOMA	1.48	1.04	0.65	0.93
DIGESTIVE ORGANS	1.10	0.97	0.97	1.10*
STOMACH	0.94	0.93	0.96	0.98
COLON & RECTUM	1.11	0.90	0.90	1.11
LIVER (PRIMARY)	2.02	1.75	0.81	0.94
TRACHEA, BRONCHUS, LUNG	1.28*	1.17*	1.13	1.23**
BREAST (FEMALE)	0.98	1.02	1.09	1.05
THYROID	1.10	1.63	1.36	0.92
BONES & JOINTS	2.39	3.26	1.35	0.99
BLADDER	1.08	0.77	0.70	0.99
BRAIN & OTHER C.N.S.	1.09	0.95	0.92	1.05

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Age at diagnosis: 60 plus

Haddam Neck (1967)
Middlesex, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	83	0.88	230	0.90	155	1.01	385	0.95
ALL CANCER, EXCL LEUK	2677	0.85	7759	0.91	5200	0.98	13064	0.93
HODGKIN'S DISEASE	9	0.61	46	1.15	9	0.47	58	1.14
OTHER LYMPHOMA	54	0.84	188	1.07	136	0.97	334	0.90
MULTIPLE MYELOMA	25	0.85	53	0.67	62	0.94	166	0.96
DIGESTIVE ORGANS	989	0.84	2942	0.93	1551	0.94	4073	0.94
STOMACH	207	0.89	624	1.01	179	0.94	464	0.92
COLON & RECTUM	573	0.84	1620	0.89	1018	0.93	2706	0.94
LIVER (PRIMARY)	17	0.77	56	0.94	36	1.06	90	1.00
TRACHEA, BRONCHUS, LUNG	236	0.80	682	0.84	775	1.01	1857	0.91
BREAST (FEMALE)	284	0.87	864	0.99	620	1.00	1588	0.96
THYROID	18	1.29	38	1.01	24	1.16	44	0.81
BONES & JOINTS	7	1.32	10	0.70	12	1.97	14	0.87
BLADDER	149	0.93	344	0.80	336	1.05	776	0.92
BRAIN & OTHER C.N.S.	19	0.84	49	0.77	58	1.06	132	0.91

Table 1-B.10(INC)

Age at diagnosis: 60 plus

Haddam Neck (1967)
Middlesex, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.98	1.06	1.15	1.06
ALL CANCER, EXCL LEUK	0.93**	1.05**	1.15***	1.02
HODGKIN'S DISEASE	0.53	0.41*	0.77	0.99
OTHER LYMPHOMA	0.79	1.08	1.15	0.84
MULTIPLE MYELOMA	1.27	0.98	1.11	1.43*
DIGESTIVE ORGANS	0.90**	1.00	1.12**	1.01
STOMACH	0.88	1.02	1.06	0.91
COLON & RECTUM	0.94	0.99	1.11	1.06
LIVER (PRIMARY)	0.82	1.06	1.38	1.06
TRACHEA, BRONCHUS, LUNG	0.95	1.11*	1.26**	1.08*
BREAST (FEMALE)	0.88	1.04	1.15	0.97
THYROID	1.28	1.43	0.90	0.80
BONES & JOINTS	1.89	2.26	1.49	1.24
BLADDER	1.16	1.14*	1.13	1.15*
BRAIN & OTHER C.N.S.	1.09	1.16	1.26	1.18

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Age at diagnosis: all

Haddam Neck (1967)
Middlesex, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	149	0.95	392	0.90	237	1.00	601	0.94
ALL CANCER, EXCL LEUK	4182	0.88	11697	0.90	7566	0.98	19178	0.93
HODGKIN'S DISEASE	42	0.83	132	0.90	56	0.68	242	1.03
OTHER LYMPHOMA	104	0.90	344	1.07	236	1.06	533	0.89
MULTIPLE MYELOMA	37	0.95	79	0.74	78	0.92	209	0.94
DIGESTIVE ORGANS	1323	0.87	3793	0.91	1933	0.94	5112	0.94
STOMACH	256	0.89	760	0.97	218	0.91	570	0.90
COLON & RECTUM	787	0.88	2168	0.89	1252	0.93	3388	0.95
LIVER (PRIMARY)	29	1.03	71	0.93	53	1.16	114	0.94
TRACHEA, BRONCHUS, LUNG	383	0.87	1008	0.82	1128	1.05	2668	0.93
BREAST (FEMALE)	563	0.87	1634	0.91	1097	0.97	2842	0.94
THYROID	36	0.94	91	0.84	76	1.03	150	0.74
BONES & JOINTS	19	1.30	37	0.88	26	1.43	46	0.90
BLADDER	193	0.95	466	0.84	411	0.99	1032	0.93
BRAIN & OTHER C.N.S.	62	0.83	179	0.83	123	0.97	334	0.96

Table 1-B.10(INC)

Age at diagnosis: all

Haddam Neck (1967)
Middlesex, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.06	1.06	1.05	1.04
ALL CANCER, EXCL LEUK	0.98	1.05***	1.11***	1.03***
HODGKIN'S DISEASE	0.92	0.66**	0.82	1.14
OTHER LYMPHOMA	0.84	1.19*	1.18	0.83**
MULTIPLE MYELOMA	1.28	0.98	0.97	1.27
DIGESTIVE ORGANS	0.96	1.00	1.08*	1.03
STOMACH	0.92	1.01	1.02	0.93
COLON & RECTUM	0.99	0.98	1.06	1.07*
LIVER (PRIMARY)	1.11	1.23	1.13	1.01
TRACHEA, BRONCHUS, LUNG	1.06	1.13**	1.21**	1.13***
BREAST (FEMALE)	0.96	1.03	1.11*	1.03
THYROID	1.12	1.39*	1.10	0.88
BONES & JOINTS	1.48	1.59	1.10	1.02
BLADDER	1.13	1.06	1.04	1.11
BRAIN & OTHER C.N.S.	1.00	1.01	1.17	1.16

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.11

Age at death: under 10

La Crosse (Genoa) (1967)
Vernon, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4	0.94	10	1.07	1	0.59	5	1.26
ALL CANCER, EXCL LEUK	6	1.39	8	0.85	5	2.47	7	1.47
HODGKIN'S DISEASE	1	13.67	1	6.35	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	2	1.51	1	4.45	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	0	0.00	1	6.00
BLADDER	1	37.45	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	3	1.70	2	0.52	2	2.72	2	1.15
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	0	0.00

Table 1-B.11

Age at death: under 10

La Crosse (Genoa) (1967)
Vernon, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.88	0.47	0.63	1.18
ALL CANCER, EXCL LEUK	1.64	1.68	1.78	1.73
HODGKIN'S DISEASE	2.15	-	0.00	0.00
OTHER LYMPHOMA	0.00	-	-	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	0.00	-	-
BLADDER	-	-	0.00	-
BRAIN & OTHER C.N.S.	3.27	2.37	1.60	2.21
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.11

Age at death: 10 to 19

La Crosse (Genoa) (1967)
Vernon, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4	2.06	3	0.73	5	3.35	4	1.19
ALL CANCER, EXCL LEUK	2	0.55	12	1.55	5	1.87	4	0.66
HODGKIN'S DISEASE	0	0.00	2	2.36	0	0.00	1	2.22
OTHER LYMPHOMA	0	0.00	2	1.74	1	2.52	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	5.65	0	0.00	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	14.23	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	4	2.76	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	2	1.02	3	4.35	2	1.28
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	0	0.00

Table 1-B.11

Age at death: 10 to 19

La Crosse (Genoa) (1967)
Vernon, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	2.82	2.82	1.63	1.63
ALL CANCER, EXCL LEUK	0.35	2.83	3.40	0.43
HODGKIN'S DISEASE	0.00	0.00	-	0.94
OTHER LYMPHOMA	0.00	-	-	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	0.00	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	0.00	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	-	-	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.00	3.40	-	1.25
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.11

Age at death: 20 to 39

La Crosse (Genoa) (1967)
Vernon, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4	1.72	5	1.04	4	2.10	5	1.19
ALL CANCER, EXCL LEUK	14	0.66	44	1.03	13	0.87	38	1.16
HODGKIN'S DISEASE	1	0.52	3	0.75	2	1.72	4	1.56
OTHER LYMPHOMA	1	0.87	3	1.26	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	1	5.41	0	0.00	1	7.60
DIGESTIVE ORGANS	3	0.81	10	1.33	2	0.93	4	0.86
STOMACH	0	0.00	4	2.53	1	2.88	1	1.33
COLON & RECTUM	2	1.08	6	1.60	1	0.94	2	0.86
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	1	0.66	2	0.65	1	0.70	1	0.32
BREAST (FEMALE)	0	0.00	4	0.69	1	0.45	7	1.45
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	3	10.31	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	3	1.59	4	1.03	0	0.00	10	3.08
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	1	1.40

Table 1-B.11

Age at death: 20 to 39

La Crosse (Genoa) (1967)
Vernon, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.65	1.76	1.22	1.14
ALL CANCER, EXCL LEUK	0.64	0.75	1.32	1.13
HODGKIN'S DISEASE	0.69	1.10	3.31	2.08
OTHER LYMPHOMA	0.69	-	0.00	0.00
MULTIPLE MYELOMA	0.00	0.00	-	1.40
DIGESTIVE ORGANS	0.61	1.08	1.15	0.65
STOMACH	0.00	2.17	-	0.53
COLON & RECTUM	0.68	1.09	0.87	0.54
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	1.02	2.19	1.06	0.49
BREAST (FEMALE)	0.00	0.31	-	2.10
THYROID	-	-	-	-
BONES & JOINTS	-	-	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.54	0.00*	0.00	2.99
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.11

Age at death: 40 to 59

La Crosse (Genoa) (1967)
Vernon, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	7	0.99	13	0.91	4	0.73	15	1.35
ALL CANCER, EXCL LEUK	155	0.82	326	0.85	129	0.74	320	0.91
HODGKIN'S DISEASE	2	0.71	1	0.17	0	0.00	2	0.66
OTHER LYMPHOMA	7	1.21	9	0.77	6	1.07	13	1.14
MULTIPLE MYELOMA	2	0.99	2	0.49	0	0.00	7	1.70
DIGESTIVE ORGANS	60	1.11	101	0.92	33	0.86	85	1.09
STOMACH	15	1.36	27	1.21	4	0.77	12	1.14
COLON & RECTUM	27	1.15	47	0.99	15	0.85	37	1.04
LIVER (PRIMARY)	5	0.84	10	0.83	1	0.45	8	1.77
TRACHEA, BRONCHUS, LUNG	12	0.35	33	0.46	27	0.54	69	0.68
BREAST (FEMALE)	14	0.56	51	1.03	6	0.25	37	0.78
THYROID	0	0.00	4	2.86	0	0.00	2	2.52
BONES & JOINTS	2	1.60	4	1.58	1	1.71	3	2.53
BLADDER	1	0.31	6	0.91	2	0.97	8	1.90
BRAIN & OTHER C.N.S.	8	1.10	23	1.56	4	0.61	16	1.20
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	0.67	2	0.67

Table 1-B.11

Age at death: 40 to 59

La Crosse (Genoa) (1967)
Vernon, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.09	0.54	0.74	1.48
ALL CANCER, EXCL LEUK	0.96	0.81	0.90	1.07
HODGKIN'S DISEASE	4.18	0.00	0.00	3.88
OTHER LYMPHOMA	1.57	0.94	0.88	1.48
MULTIPLE MYELOMA	2.02	0.00	0.00	3.47
DIGESTIVE ORGANS	1.21	0.79	0.77	1.18
STOMACH	1.12	0.68	0.57	0.94
COLON & RECTUM	1.16	0.82	0.74	1.05
LIVER (PRIMARY)	1.01	0.25	0.54	2.13
TRACHEA, BRONCHUS, LUNG	0.76	0.79	1.54	1.48
BREAST (FEMALE)	0.54*	0.32**	0.45	0.76
THYROID	0.00	0.00	-	0.88
BONES & JOINTS	1.01	0.68	1.07	1.60
BLADDER	0.34	0.51	3.13	2.09
BRAIN & OTHER C.N.S.	0.71	0.51	0.55	0.77
BENIGN & UNSPEC NEOPLASMS	-	1.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.11

Age at death: 60 plus

La Crosse (Genoa) (1967)
Vernon, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	20	0.80	43	0.87	36	1.10	67	0.99
ALL CANCER, EXCL LEUK	555	0.85	1118	0.87	706	0.86	1451	0.86
HODGKIN'S DISEASE	9	2.18	7	0.85	3	0.90	4	0.59
OTHER LYMPHOMA	11	0.76	29	1.01	21	0.84	42	0.82
MULTIPLE MYELOMA	8	1.23	14	1.08	21	1.60	41	1.52
DIGESTIVE ORGANS	243	0.90	526	0.99	233	0.89	503	0.94
STOMACH	76	1.17	141	1.11	35	0.95	78	1.02
COLON & RECTUM	94	0.80	212	0.92	118	0.90	261	0.97
LIVER (PRIMARY)	19	0.63	83	1.41	8	0.59	20	0.72
TRACHEA, BRONCHUS, LUNG	40	0.46	75	0.43	119	0.62	214	0.54
BREAST (FEMALE)	36	0.82	76	0.89	57	1.01	113	1.00
THYROID	5	1.84	5	0.94	2	0.84	5	1.03
BONES & JOINTS	5	1.23	7	0.87	1	0.39	7	1.34
BLADDER	15	0.57	34	0.65	20	0.70	45	0.75
BRAIN & OTHER C.N.S.	5	0.83	11	0.90	10	0.70	27	0.93
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	0.17	8	0.65

Table 1-B.11

Age at death: 60 plus

La Crosse (Genoa) (1967)
Vernon, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.92	1.11	1.38	1.14
ALL CANCER, EXCL LEUK	0.98	1.00	1.01	0.99
HODGKIN'S DISEASE	2.56	1.53	0.41	0.69
OTHER LYMPHOMA	0.75	1.02	1.11	0.81
MULTIPLE MYELOMA	1.14	1.05	1.30	1.41
DIGESTIVE ORGANS	0.91	0.95	0.99	0.95
STOMACH	1.05	0.93	0.81	0.92
COLON & RECTUM	0.87	0.93	1.13	1.05
LIVER (PRIMARY)	0.45**	0.82	0.94	0.51**
TRACHEA, BRONCHUS, LUNG	1.07	1.15	1.35	1.26
BREAST (FEMALE)	0.92	1.01	1.23	1.12
THYROID	1.96	0.82	0.46	1.10
BONES & JOINTS	1.41	0.29	0.32	1.54
BLADDER	0.88	0.93	1.23	1.15
BRAIN & OTHER C.N.S.	0.92	0.75	0.84	1.03
BENIGN & UNSPEC NEOPLASMS	-	0.26	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.11

Age at death: all

La Crosse (Genoa) (1967)
Vernon, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	39	0.96	74	0.90	50	1.15	96	1.06
ALL CANCER, EXCL LEUK	732	0.84	1508	0.87	858	0.85	1820	0.87
HODGKIN'S DISEASE	13	1.39	14	0.74	5	0.80	11	0.85
OTHER LYMPHOMA	19	0.84	45	0.99	29	0.90	55	0.83
MULTIPLE MYELOMA	10	1.16	17	0.99	21	1.38	49	1.57
DIGESTIVE ORGANS	307	0.94	637	0.98	268	0.89	592	0.95
STOMACH	91	1.19	172	1.14	40	0.94	91	1.04
COLON & RECTUM	124	0.87	265	0.94	134	0.90	300	0.98
LIVER (PRIMARY)	24	0.66	93	1.29	9	0.56	28	0.84
TRACHEA, BRONCHUS, LUNG	53	0.43	110	0.44	147	0.60	284	0.57
BREAST (FEMALE)	50	0.70	131	0.93	64	0.78	157	0.95
THYROID	5	1.43	9	1.30	2	0.71	7	1.22
BONES & JOINTS	7	1.07	15	1.14	5	1.25	11	1.32
BLADDER	17	0.57	40	0.68	22	0.72	53	0.83
BRAIN & OTHER C.N.S.	19	1.06	42	1.15	19	0.80	57	1.16
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	2	0.25	11	0.65

Table 1-B.11

Age at death: all

La Crosse (Genoa) (1967)
Vernon, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.07	1.08	1.20	1.18
ALL CANCER, EXCL LEUK	0.97	0.98	1.01	1.00
HODGKIN'S DISEASE	1.88	0.94	0.58	1.15
OTHER LYMPHOMA	0.85	1.08	1.07	0.84
MULTIPLE MYELOMA	1.17	0.88	1.19	1.59
DIGESTIVE ORGANS	0.96	0.94	0.95	0.97
STOMACH	1.04	0.90	0.79	0.91
COLON & RECTUM	0.93	0.92	1.03	1.04
LIVER (PRIMARY)	0.51**	0.67	0.85	0.65
TRACHEA, BRONCHUS, LUNG	0.98	1.05	1.40*	1.30*
BREAST (FEMALE)	0.75	0.82	1.11	1.02
THYROID	1.10	0.58	0.50	0.94
BONES & JOINTS	0.94	0.95	1.17	1.16
BLADDER	0.84	0.87	1.26	1.22
BRAIN & OTHER C.N.S.	0.92	0.69	0.75	1.01
BENIGN & UNSPEC NEOPLASMS	-	0.38	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.12

Age at death: under 10

San Onofre 1,2,3 (1967)
Orange, CA ; San Diego, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	310	1.16	135	0.98	229	1.08	124	1.16
ALL CANCER, EXCL LEUK	313	1.14	156	1.10	294	1.12	158	1.18
HODGKIN'S DISEASE	2	0.47	3	1.34	1	0.43	5	4.25
OTHER LYMPHOMA	43	1.13	26	1.32	31	1.08	17	1.17
MULTIPLE MYELOMA	1	8.29	0	0.00	0	0.00	1	14.43
DIGESTIVE ORGANS	17	1.20	5	0.68	17	1.26	11	1.61
STOMACH	0	0.00	1	3.20	1	3.10	0	0.00
COLON & RECTUM	1	0.65	0	0.00	4	3.74	2	3.73
LIVER (PRIMARY)	11	1.33	3	0.71	8	0.81	5	0.98
TRACHEA, BRONCHUS, LUNG	0	0.00	3	2.69	6	2.15	1	0.71
BREAST (FEMALE)	0	0.00	0	0.00	2	4.00	1	3.77
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	12	1.22	3	0.58	4	0.45	12	2.66
BLADDER	0	0.00	0	0.00	0	0.00	1	2.12
BRAIN & OTHER C.N.S.	127	1.13	63	1.09	94	0.99	44	0.91
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	18	0.68	14	1.07

Table 1-B.12

Age at death: under 10

San Onofre 1,2,3 (1967)
Orange, CA ; San Diego, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.18	0.93	0.93	1.18
ALL CANCER, EXCL LEUK	1.04	0.95	0.98	1.07
HODGKIN'S DISEASE	0.35	0.10*	0.91	3.17
OTHER LYMPHOMA	0.86	0.92	0.96	0.89
MULTIPLE MYELOMA	-	0.00	0.00	-
DIGESTIVE ORGANS	1.76	0.78	1.05	2.37
STOMACH	0.00	-	-	0.00
COLON & RECTUM	-	1.00	5.75	-
LIVER (PRIMARY)	1.87	0.83	0.61	1.38
TRACHEA, BRONCHUS, LUNG	0.00	3.03	-	0.26
BREAST (FEMALE)	-	1.06	-	-
THYROID	-	-	-	-
BONES & JOINTS	2.10	0.17**	0.37	4.59*
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	1.04	1.09	0.88	0.83
BENIGN & UNSPEC NEOPLASMS	-	0.64	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.12

Age at death: 10 to 19

San Onofre 1,2,3 (1967)
Orange, CA ; San Diego, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	115	0.96	66	1.11	171	0.88	107	1.18
ALL CANCER, EXCL LEUK	219	0.94	115	1.02	386	1.07	161	0.97
HODGKIN'S DISEASE	15	0.58	12	0.97	20	0.74	12	0.97
OTHER LYMPHOMA	29	0.83	15	0.89	56	1.07	20	0.83
MULTIPLE MYELOMA	1	8.68	0	0.00	1	4.02	0	0.00
DIGESTIVE ORGANS	5	0.45	2	0.37	22	1.31	11	1.44
STOMACH	0	0.00	0	0.00	1	1.10	1	2.46
COLON & RECTUM	2	0.46	1	0.49	6	1.07	3	1.20
LIVER (PRIMARY)	2	0.55	1	0.56	7	1.00	5	1.54
TRACHEA, BRONCHUS, LUNG	1	0.39	3	2.40	6	1.69	1	0.62
BREAST (FEMALE)	0	0.00	0	0.00	2	3.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	39	0.90	20	0.96	67	1.01	27	0.88
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	68	1.21	24	0.85	107	1.19	48	1.14
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	22	1.07	15	1.57

Table 1-B.12

Age at death: 10 to 19

San Onofre 1,2,3 (1967)
Orange, CA ; San Diego, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.86	0.75*	0.92	1.06
ALL CANCER, EXCL LEUK	0.92	1.10	1.14	0.95
HODGKIN'S DISEASE	0.60	0.76	1.28	1.00
OTHER LYMPHOMA	0.93	1.29	1.29	0.93
MULTIPLE MYELOMA	-	-	0.46	-
DIGESTIVE ORGANS	1.22	0.91	2.91*	3.89
STOMACH	-	0.45	-	-
COLON & RECTUM	0.94	0.89	2.33	2.45
LIVER (PRIMARY)	0.98	0.65	1.82	2.75
TRACHEA, BRONCHUS, LUNG	0.16	2.73	4.33	0.26
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.94	1.15	1.12	0.92
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.42	1.04	0.98	1.34
BENIGN & UNSPEC NEOPLASMS	-	0.68	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.12

Age at death: 20 to 39

San Onofre 1,2,3 (1967)
Orange, CA ; San Diego, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	211	1.08	70	0.75	347	0.95	174	1.11
ALL CANCER, EXCL LEUK	1465	0.86	720	0.87	2527	0.91	1137	0.94
HODGKIN'S DISEASE	130	0.80	59	0.76	169	0.79	93	1.02
OTHER LYMPHOMA	85	0.87	38	0.81	174	0.93	78	0.97
MULTIPLE MYELOMA	12	1.62	3	0.84	8	0.68	7	1.36
DIGESTIVE ORGANS	217	0.75	134	0.95	361	0.89	152	0.86
STOMACH	45	0.75	31	1.05	82	1.20	29	0.97
COLON & RECTUM	96	0.67	67	0.96	150	0.77	67	0.78
LIVER (PRIMARY)	20	0.69	13	0.92	43	0.98	14	0.75
TRACHEA, BRONCHUS, LUNG	115	0.90	56	0.91	244	0.95	107	0.94
BREAST (FEMALE)	208	0.92	91	0.83	377	0.95	172	0.98
THYROID	8	1.39	4	1.43	3	0.41	6	1.87
BONES & JOINTS	24	0.73	13	0.84	50	0.83	23	0.92
BLADDER	7	0.98	0	0.00	10	1.16	6	1.56
BRAIN & OTHER C.N.S.	179	1.18	67	0.92	220	0.83	108	0.93
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	49	0.78	29	1.09

Table 1-B.12

Age at death: 20 to 39

San Onofre 1,2,3 (1967)
Orange, CA ; San Diego, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.44**	0.86	0.88	1.48**
ALL CANCER, EXCL LEUK	0.99	0.97	1.06	1.08
HODGKIN'S DISEASE	1.05	0.77	0.99	1.34
OTHER LYMPHOMA	1.07	0.96	1.07	1.20
MULTIPLE MYELOMA	1.93	0.50	0.42	1.62
DIGESTIVE ORGANS	0.79*	1.03	1.19*	0.91
STOMACH	0.71	1.24	1.60*	0.92
COLON & RECTUM	0.70*	0.99	1.15	0.81
LIVER (PRIMARY)	0.75	1.31	1.42	0.82
TRACHEA, BRONCHUS, LUNG	0.99	1.01	1.06	1.03
BREAST (FEMALE)	1.11	0.97	1.03	1.18
THYROID	0.97	0.22	0.29	1.31
BONES & JOINTS	0.87	0.90	1.14	1.10
BLADDER	-	0.74	1.18	-
BRAIN & OTHER C.N.S.	1.28	0.89	0.70***	1.01
BENIGN & UNSPEC NEOPLASMS	-	0.72	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.12

Age at death: 40 to 59

San Onofre 1,2,3 (1967)
Orange, CA ; San Diego, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	324	0.93	190	0.98	636	0.98	271	0.94
ALL CANCER, EXCL LEUK	8962	0.95	4766	0.90	19793	0.95	8429	0.91
HODGKIN'S DISEASE	112	0.78	73	0.93	134	0.78	62	0.81
OTHER LYMPHOMA	318	1.09	141	0.87	701	1.07	268	0.92
MULTIPLE MYELOMA	94	0.93	54	0.95	224	0.89	93	0.84
DIGESTIVE ORGANS	2264	0.88	1265	0.86	4137	0.90	1820	0.90
STOMACH	420	0.83	257	0.88	631	1.00	271	0.97
COLON & RECTUM	944	0.85	502	0.80	1728	0.85	757	0.83
LIVER (PRIMARY)	261	0.94	133	0.83	256	0.94	90	0.74
TRACHEA, BRONCHUS, LUNG	1703	0.99	905	0.94	5829	0.97	2479	0.93
BREAST (FEMALE)	1431	1.06	673	0.91	2951	1.02	1169	0.92
THYROID	22	0.67	9	0.48	43	0.94	17	0.84
BONES & JOINTS	39	0.68	29	0.88	50	0.74	24	0.80
BLADDER	157	1.09	85	1.01	227	0.98	113	1.09
BRAIN & OTHER C.N.S.	393	1.09	190	0.95	776	1.01	359	1.06
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	155	0.87	93	1.19

Table 1-B.12

Age at death: 40 to 59

San Onofre 1,2,3 (1967)
Orange, CA ; San Diego, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.95	1.04	1.05	0.96
ALL CANCER, EXCL LEUK	1.06**	1.04**	1.00	1.01
HODGKIN'S DISEASE	0.84	0.96	1.00	0.87
OTHER LYMPHOMA	1.25*	1.16*	0.98	1.06
MULTIPLE MYELOMA	0.98	1.06	0.96	0.88
DIGESTIVE ORGANS	1.02	1.00	1.02	1.05
STOMACH	0.94	1.03	1.20**	1.10
COLON & RECTUM	1.06	1.02	1.00	1.04
LIVER (PRIMARY)	1.13	1.27	1.00	0.89
TRACHEA, BRONCHUS, LUNG	1.05	1.04	0.98	0.99
BREAST (FEMALE)	1.16**	1.11**	0.96	1.01
THYROID	1.40	1.12	1.40	1.75
BONES & JOINTS	0.77	0.93	1.09	0.91
BLADDER	1.08	0.90	0.90	1.08
BRAIN & OTHER C.N.S.	1.15	0.95	0.93	1.12
BENIGN & UNSPEC NEOPLASMS	-	0.73*	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.12

Age at death: 60 plus

San Onofre 1,2,3 (1967)
Orange, CA ; San Diego, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	836	0.98	467	0.92	2141	0.96	1044	0.97
ALL CANCER, EXCL LEUK	20483	0.92	11914	0.90	56902	0.98	26886	0.96
HODGKIN'S DISEASE	118	0.82	88	1.03	232	1.02	111	1.00
OTHER LYMPHOMA	673	1.30	295	0.97	1879	1.06	802	0.94
MULTIPLE MYELOMA	302	1.24	133	0.93	995	1.03	482	1.03
DIGESTIVE ORGANS	7676	0.85	4494	0.83	16772	0.92	7996	0.91
STOMACH	1616	0.79	1021	0.82	2319	0.93	1168	0.95
COLON & RECTUM	3330	0.83	1847	0.78	8081	0.89	3805	0.87
LIVER (PRIMARY)	845	0.83	554	0.92	787	0.84	395	0.86
TRACHEA, BRONCHUS, LUNG	3101	1.03	1835	1.01	14443	1.06	6617	0.99
BREAST (FEMALE)	1722	0.98	937	0.95	4633	1.02	2063	0.97
THYROID	105	1.08	48	0.85	159	0.93	76	0.93
BONES & JOINTS	91	0.70	44	0.56	131	0.78	58	0.70
BLADDER	842	1.01	482	0.95	1803	0.98	856	0.95
BRAIN & OTHER C.N.S.	278	1.23	123	0.92	1153	1.08	514	1.00
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	421	1.01	246	1.22

Table 1-B.12

Age at death: 60 plus

San Onofre 1,2,3 (1967)
Orange, CA ; San Diego, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.07	0.99	0.98	1.05
ALL CANCER, EXCL LEUK	1.02	1.02***	1.07***	1.07***
HODGKIN'S DISEASE	0.80	1.02	1.24	0.97
OTHER LYMPHOMA	1.34***	1.13**	0.82***	0.97
MULTIPLE MYELOMA	1.33**	1.00	0.83**	1.11
DIGESTIVE ORGANS	1.02	1.01	1.08***	1.10***
STOMACH	0.96	0.98	1.18***	1.16**
COLON & RECTUM	1.06*	1.02	1.07***	1.12***
LIVER (PRIMARY)	0.90	0.98	1.01	0.93
TRACHEA, BRONCHUS, LUNG	1.02	1.07***	1.03	0.98
BREAST (FEMALE)	1.03	1.05	1.04	1.02
THYROID	1.27	1.00	0.86	1.09
BONES & JOINTS	1.25	1.11	1.11	1.25
BLADDER	1.06	1.03	0.97	1.00
BRAIN & OTHER C.N.S.	1.34**	1.08	0.88	1.09
BENIGN & UNSPEC NEOPLASMS	-	0.83*	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.12

Age at death: all

San Onofre 1,2,3 (1967)
Orange, CA ; San Diego, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1796	1.00	928	0.93	3524	0.97	1720	1.00
ALL CANCER, EXCL LEUK	31442	0.93	17671	0.90	79902	0.97	36771	0.95
HODGKIN'S DISEASE	377	0.79	235	0.92	556	0.87	283	0.96
OTHER LYMPHOMA	1148	1.17	515	0.94	2841	1.05	1185	0.94
MULTIPLE MYELOMA	410	1.17	190	0.93	1228	1.00	583	1.00
DIGESTIVE ORGANS	10179	0.85	5900	0.84	21309	0.92	9990	0.90
STOMACH	2081	0.80	1310	0.84	3034	0.95	1469	0.95
COLON & RECTUM	4373	0.83	2417	0.79	9969	0.88	4634	0.86
LIVER (PRIMARY)	1139	0.85	704	0.90	1101	0.87	509	0.84
TRACHEA, BRONCHUS, LUNG	4920	1.01	2802	0.98	20528	1.03	9205	0.98
BREAST (FEMALE)	3361	1.01	1701	0.93	7965	1.02	3405	0.95
THYROID	135	0.99	61	0.78	205	0.91	99	0.94
BONES & JOINTS	205	0.75	109	0.71	302	0.81	144	0.83
BLADDER	1006	1.02	567	0.96	2040	0.98	976	0.97
BRAIN & OTHER C.N.S.	1045	1.15	467	0.95	2350	1.03	1073	1.01
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	665	0.94	397	1.20

Table 1-B.12

Age at death: all

San Onofre 1,2,3 (1967)
Orange, CA ; San Diego, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.08	0.97	0.97	1.08
ALL CANCER, EXCL LEUK	1.03**	1.02***	1.04***	1.06***
HODGKIN'S DISEASE	0.86	0.91	1.10	1.04
OTHER LYMPHOMA	1.24***	1.12***	0.90**	1.00
MULTIPLE MYELOMA	1.26*	1.00	0.85**	1.08
DIGESTIVE ORGANS	1.01	1.02	1.08***	1.07***
STOMACH	0.95	1.00	1.19***	1.13***
COLON & RECTUM	1.05*	1.02	1.06***	1.09***
LIVER (PRIMARY)	0.94	1.04	1.02	0.93
TRACHEA, BRONCHUS, LUNG	1.03	1.05***	1.02	1.00
BREAST (FEMALE)	1.09**	1.07**	1.01	1.02
THYROID	1.27	0.97	0.92	1.21
BONES & JOINTS	1.06	0.98	1.08	1.17
BLADDER	1.06	1.01	0.96	1.01
BRAIN & OTHER C.N.S.	1.21***	1.02	0.90**	1.06
BENIGN & UNSPEC NEOPLASMS	-	0.78***	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.13

Age at death: under 10

Ginna (1969)
Wayne, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8	0.68	28	0.90	2	0.39	14	1.21
ALL CANCER, EXCL LEUK	14	1.17	41	1.29	6	0.94	12	0.83
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	2	1.21	5	1.14	0	0.00	1	0.64
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	1.64	3	1.83	0	0.00	0	0.00
STOMACH	0	0.00	1	14.38	0	0.00	0	0.00
COLON & RECTUM	0	0.00	1	5.57	0	0.00	0	0.00
LIVER (PRIMARY)	1	2.85	1	1.06	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	3	2.56	1	4.64	1	2.04
BLADDER	0	0.00	1	5.27	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	7	1.44	15	1.16	2	0.87	3	0.58
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	1	1.32	2	1.17

Table 1-B.13

Age at death: under 10

Ginna (1969)
Wayne, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.76	0.32	0.57	1.34
ALL CANCER, EXCL LEUK	0.91	1.13	0.80	0.64
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	1.06	0.00	0.00	0.56
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.90	-	0.00	0.00
STOMACH	0.00	-	-	0.00
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	2.69	-	0.00	0.00
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	2.27	-	0.80
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	1.24	1.50	0.60	0.50
BENIGN & UNSPEC NEOPLASMS	-	1.13	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.13

Age at death: 10 to 19

Ginna (1969)
Wayne, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3	0.56	10	0.73	6	1.38	14	1.30
ALL CANCER, EXCL LEUK	14	1.38	27	1.04	11	1.42	14	0.73
HODGKIN'S DISEASE	2	1.82	3	1.06	0	0.00	1	0.74
OTHER LYMPHOMA	1	0.66	5	1.30	2	1.76	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	3	2.45	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	1	2.17	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	1	2.48	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	4	2.13	6	1.25	4	2.79	2	0.56
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	2	0.79	7	1.09	0	0.00	5	1.00
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	4	3.06

Table 1-B.13

Age at death: 10 to 19

Ginna (1969)
Wayne, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.77	1.06	2.46	1.78
ALL CANCER, EXCL LEUK	1.33	1.95	1.03	0.70
HODGKIN'S DISEASE	1.72	0.00	0.00	0.70
OTHER LYMPHOMA	0.51	-	2.67	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	-	-	-	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	0.00	-	-	0.00
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.70	4.98	1.31	0.45
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.72	0.00	0.00	0.92
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.13

Age at death: 20 to 39

Ginna (1969)
Wayne, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	9	1.19	17	0.86	12	1.76	16	0.97
ALL CANCER, EXCL LEUK	72	1.06	159	0.91	46	0.85	112	0.89
HODGKIN'S DISEASE	11	1.73	20	1.21	2	0.51	12	1.27
OTHER LYMPHOMA	4	1.06	10	1.01	5	1.41	8	0.94
MULTIPLE MYELOMA	1	3.42	1	1.30	0	0.00	0	0.00
DIGESTIVE ORGANS	11	0.95	26	0.85	6	0.77	9	0.49
STOMACH	1	0.41	8	1.24	2	1.56	0	0.00
COLON & RECTUM	4	0.69	13	0.86	2	0.52	5	0.56
LIVER (PRIMARY)	5	4.34	2	0.65	1	1.33	1	0.54
TRACHEA, BRONCHUS, LUNG	3	0.59	15	1.12	5	0.94	13	1.07
BREAST (FEMALE)	7	0.75	18	0.79	5	0.61	16	0.89
THYROID	0	0.00	0	0.00	0	0.00	1	3.02
BONES & JOINTS	0	0.00	2	0.62	2	1.94	4	1.54
BLADDER	1	3.45	2	2.60	1	5.68	0	0.00
BRAIN & OTHER C.N.S.	5	0.83	12	0.77	8	1.50	12	0.96
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	3	2.19	2	0.62

Table 1-B.13

Age at death: 20 to 39

Ginna (1969)
Wayne, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.38	1.81	1.48	1.13
ALL CANCER, EXCL LEUK	1.16	0.96	0.80	0.98
HODGKIN'S DISEASE	1.43	0.40	0.29	1.05
OTHER LYMPHOMA	1.05	1.50	1.33	0.93
MULTIPLE MYELOMA	2.63	-	0.00	0.00
DIGESTIVE ORGANS	1.12	1.57	0.81	0.58
STOMACH	0.33	-	3.80	0.00
COLON & RECTUM	0.80	0.93	0.75	0.65
LIVER (PRIMARY)	6.68*	2.46	0.31	0.83
TRACHEA, BRONCHUS, LUNG	0.53	0.88	1.59	0.96
BREAST (FEMALE)	0.95	0.69	0.81	1.13
THYROID	-	0.00	-	-
BONES & JOINTS	0.00	1.26	-	2.48
BLADDER	1.33	-	1.65	0.00
BRAIN & OTHER C.N.S.	1.08	1.56	1.81	1.25
BENIGN & UNSPEC NEOPLASMS	-	3.53	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.13

Age at death: 40 to 59

Ginna (1969)
Wayne, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	20	1.05	48	0.96	12	0.84	34	0.95
ALL CANCER, EXCL LEUK	467	0.90	1302	0.96	436	0.95	1147	0.99
HODGKIN'S DISEASE	11	1.44	19	0.94	6	1.64	14	1.53
OTHER LYMPHOMA	21	1.31	39	0.93	13	0.89	37	1.00
MULTIPLE MYELOMA	2	0.36	13	0.90	9	1.63	10	0.72
DIGESTIVE ORGANS	128	0.89	397	1.04	101	1.01	253	1.01
STOMACH	24	0.84	79	1.04	19	1.41	28	0.83
COLON & RECTUM	75	1.20	190	1.15	41	0.90	116	1.01
LIVER (PRIMARY)	8	0.51	29	0.70	6	1.09	9	0.66
TRACHEA, BRONCHUS, LUNG	84	0.87	185	0.73	137	1.02	338	0.99
BREAST (FEMALE)	69	0.95	216	1.16	58	0.91	177	1.12
THYROID	1	0.54	3	0.62	0	0.00	4	1.59
BONES & JOINTS	3	0.93	4	0.47	0	0.00	1	0.27
BLADDER	7	0.84	32	1.44	6	1.16	25	1.89
BRAIN & OTHER C.N.S.	11	0.56	42	0.82	6	0.35	32	0.73
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	5	1.11	17	1.51

Table 1-B.13

Age at death: 40 to 59

Ginna (1969)
Wayne, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.09	0.88	0.80	0.99
ALL CANCER, EXCL LEUK	0.94	0.96	1.06	1.03
HODGKIN'S DISEASE	1.53	1.07	1.14	1.63
OTHER LYMPHOMA	1.41	0.89	0.68	1.08
MULTIPLE MYELOMA	0.40	2.26	4.53	0.80
DIGESTIVE ORGANS	0.86	1.00	1.13	0.97
STOMACH	0.81	1.70	1.68	0.80
COLON & RECTUM	1.04	0.89	0.75	0.88
LIVER (PRIMARY)	0.73	1.65	2.14	0.94
TRACHEA, BRONCHUS, LUNG	1.19	1.03	1.17	1.36***
BREAST (FEMALE)	0.82	0.81	0.96	0.97
THYROID	0.87	0.00	0.00	2.56
BONES & JOINTS	1.98	0.00	0.00	0.57
BLADDER	0.58	0.61	1.38	1.31
BRAIN & OTHER C.N.S.	0.68	0.48	0.63	0.89
BENIGN & UNSPEC NEOPLASMS	-	0.74	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.13

Age at death: 60 plus

Ginna (1969)
Wayne, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	76	1.23	175	1.05	66	1.14	185	1.14
ALL CANCER, EXCL LEUK	1486	0.93	4008	0.92	1582	1.05	4056	0.98
HODGKIN'S DISEASE	10	1.00	26	0.95	2	0.34	10	0.63
OTHER LYMPHOMA	43	1.19	106	1.08	55	1.19	139	1.09
MULTIPLE MYELOMA	17	1.03	37	0.83	27	1.09	70	1.03
DIGESTIVE ORGANS	625	0.95	1639	0.92	503	1.08	1388	1.07
STOMACH	159	1.04	330	0.80	72	1.14	141	0.81
COLON & RECTUM	306	1.05	816	1.04	264	1.12	763	1.17
LIVER (PRIMARY)	46	0.63	140	0.71	16	0.72	45	0.73
TRACHEA, BRONCHUS, LUNG	161	0.77	484	0.84	382	1.06	887	0.90
BREAST (FEMALE)	135	1.13	371	1.15	109	0.96	314	1.00
THYROID	5	0.73	25	1.34	3	0.69	10	0.83
BONES & JOINTS	15	1.55	23	0.88	3	0.68	11	0.91
BLADDER	61	0.98	175	1.04	63	1.29	157	1.16
BRAIN & OTHER C.N.S.	10	0.67	26	0.63	22	0.78	78	1.01
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	12	0.98	49	1.45

Table 1-B.13

Age at death: 60 plus

Ginna (1969)
Wayne, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.17	1.00	0.93	1.09
ALL CANCER, EXCL LEUK	1.01	1.07*	1.13***	1.07*
HODGKIN'S DISEASE	1.05	0.54	0.34	0.66
OTHER LYMPHOMA	1.10	1.09	1.00	1.01
MULTIPLE MYELOMA	1.24	1.06	1.06	1.24
DIGESTIVE ORGANS	1.03	1.01	1.14*	1.16***
STOMACH	1.30**	1.41*	1.10	1.01
COLON & RECTUM	1.01	0.96	1.07	1.13*
LIVER (PRIMARY)	0.89	0.99	1.14	1.03
TRACHEA, BRONCHUS, LUNG	0.92	1.18*	1.38***	1.07
BREAST (FEMALE)	0.98	0.96	0.85	0.87
THYROID	0.54	0.83	0.95	0.62
BONES & JOINTS	1.76	0.75	0.44	1.03
BLADDER	0.94	1.11	1.32	1.12
BRAIN & OTHER C.N.S.	1.06	0.77	1.16	1.60*
BENIGN & UNSPEC NEOPLASMS	-	0.68	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.13

Age at death: all

Ginna (1969)
Wayne, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	116	1.10	278	0.99	98	1.10	263	1.11
ALL CANCER, EXCL LEUK	2053	0.93	5537	0.93	2081	1.02	5341	0.98
HODGKIN'S DISEASE	34	1.34	68	1.01	10	0.71	37	1.03
OTHER LYMPHOMA	71	1.20	165	1.04	75	1.13	185	1.04
MULTIPLE MYELOMA	20	0.90	51	0.85	36	1.18	80	0.97
DIGESTIVE ORGANS	765	0.94	2068	0.94	610	1.06	1650	1.05
STOMACH	184	1.00	418	0.84	93	1.19	169	0.80
COLON & RECTUM	385	1.07	1021	1.06	307	1.08	884	1.14
LIVER (PRIMARY)	60	0.66	173	0.71	23	0.79	55	0.71
TRACHEA, BRONCHUS, LUNG	248	0.80	684	0.81	524	1.05	1238	0.93
BREAST (FEMALE)	211	1.04	605	1.14	172	0.93	507	1.03
THYROID	6	0.67	28	1.16	3	0.55	15	1.00
BONES & JOINTS	22	1.34	38	0.86	10	1.17	19	0.85
BLADDER	69	0.97	210	1.09	70	1.29	182	1.22
BRAIN & OTHER C.N.S.	35	0.73	102	0.80	38	0.69	130	0.91
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	21	1.08	74	1.44

Table 1-B.13

Age at death: all

Ginna (1969)
Wayne, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.11	0.99	1.00	1.12
ALL CANCER, EXCL LEUK	1.00	1.04	1.10**	1.05*
HODGKIN'S DISEASE	1.33	0.69	0.53	1.02
OTHER LYMPHOMA	1.15	1.09	0.94	1.00
MULTIPLE MYELOMA	1.06	1.22	1.31	1.14
DIGESTIVE ORGANS	1.00	1.01	1.13*	1.12***
STOMACH	1.19	1.49**	1.19	0.95
COLON & RECTUM	1.01	0.95	1.01	1.08
LIVER (PRIMARY)	0.93	1.11	1.20	1.00
TRACHEA, BRONCHUS, LUNG	0.99	1.13*	1.31***	1.15**
BREAST (FEMALE)	0.91	0.90	0.89	0.90
THYROID	0.58	0.55	0.82	0.86
BONES & JOINTS	1.56	1.38	0.87	0.99
BLADDER	0.89	1.06	1.33	1.12
BRAIN & OTHER C.N.S.	0.91	0.76	0.95	1.14
BENIGN & UNSPEC NEOPLASMS	-	0.75	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.14

Age at death: under 10

Nine Mile Point 1/Fitzpatrick (1969)
Oswego, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	22	1.34	33	0.79	6	0.88	10	0.70
ALL CANCER, EXCL LEUK	21	1.26	38	0.90	2	0.24	16	0.91
HODGKIN'S DISEASE	0	0.00	1	1.48	0	0.00	0	0.00
OTHER LYMPHOMA	4	1.73	3	0.51	0	0.00	2	1.04
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	1.16	3	1.37	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	1	4.14	0	0.00	0	0.00
LIVER (PRIMARY)	1	2.00	1	0.80	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	1	2.94	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	1.63	0	0.00	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	9	1.32	15	0.87	1	0.33	10	1.58
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	2	2.00	0	0.00

Table 1-B.14

Age at death: under 10

Nine Mile Point 1/Fitzpatrick (1969)
Oswego, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.70	1.26	0.66	0.89
ALL CANCER, EXCL LEUK	1.40	0.26	0.19*	1.01
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	3.39	0.00	0.00	2.04
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.85	-	0.00	0.00
STOMACH	-	-	-	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	2.50	-	0.00	0.00
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	-	0.00	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.52	0.21	0.25	1.82
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.14

Age at death: 10 to 19

Nine Mile Point 1/Fitzpatrick (1969)
Oswego, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8	1.09	21	1.15	5	0.80	10	0.76
ALL CANCER, EXCL LEUK	7	0.50	26	0.75	9	0.79	24	1.02
HODGKIN'S DISEASE	1	0.65	4	1.06	0	0.00	2	1.19
OTHER LYMPHOMA	2	0.97	4	0.78	3	1.83	5	1.46
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	1	2.00	2	1.93
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	1	2.25
TRACHEA, BRONCHUS, LUNG	1	6.29	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	2	0.77	2	0.31	0	0.00	2	0.46
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	9	1.04	1	0.34	6	0.98
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	2	1.24

Table 1-B.14

Age at death: 10 to 19

Nine Mile Point 1/Fitzpatrick (1969)
Oswego, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.95	1.05	0.73	0.66
ALL CANCER, EXCL LEUK	0.67	0.77	1.58	1.36
HODGKIN'S DISEASE	0.61	0.00	0.00	1.12
OTHER LYMPHOMA	1.24	1.25	1.89	1.87
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	1.04	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	0.00	-	-
TRACHEA, BRONCHUS, LUNG	-	-	0.00	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	2.48	0.00	0.00	1.48
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.00	0.35	-	0.94
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.14

Age at death: 20 to 39

Nine Mile Point 1/Fitzpatrick (1969)
Oswego, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	2	0.21	32	1.32	8	0.88	21	1.14
ALL CANCER, EXCL LEUK	93	1.12	216	1.00	85	1.27	170	1.20
HODGKIN'S DISEASE	12	1.50	27	1.33	8	1.52	18	1.67
OTHER LYMPHOMA	5	1.07	9	0.75	8	1.73	10	1.06
MULTIPLE MYELOMA	0	0.00	1	1.10	0	0.00	1	1.80
DIGESTIVE ORGANS	12	0.86	40	1.09	13	1.40	27	1.36
STOMACH	1	0.35	4	0.53	0	0.00	4	1.25
COLON & RECTUM	7	1.00	18	0.98	11	2.40	18	1.83
LIVER (PRIMARY)	1	0.73	2	0.56	1	1.09	4	2.08
TRACHEA, BRONCHUS, LUNG	8	1.35	23	1.48	9	1.47	23	1.73
BREAST (FEMALE)	14	1.23	19	0.63	12	1.25	22	1.04
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.64	4	1.01	1	0.66	4	1.36
BLADDER	0	0.00	0	0.00	1	4.82	1	2.24
BRAIN & OTHER C.N.S.	11	1.48	15	0.78	12	1.75	13	0.92
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	4	2.33	7	1.92

Table 1-B.14

Age at death: 20 to 39

Nine Mile Point 1/Fitzpatrick (1969)
Oswego, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.16**	0.77	4.19	0.86
ALL CANCER, EXCL LEUK	1.12	1.06	1.13	1.20
HODGKIN'S DISEASE	1.13	0.91	1.01	1.26
OTHER LYMPHOMA	1.43	1.63	1.62	1.41
MULTIPLE MYELOMA	0.00	0.00	-	1.64
DIGESTIVE ORGANS	0.79	1.03	1.63	1.25
STOMACH	0.66	0.00	0.00	2.36
COLON & RECTUM	1.02	1.31	2.40	1.87
LIVER (PRIMARY)	1.30	0.52	1.49	3.71
TRACHEA, BRONCHUS, LUNG	0.91	0.85	1.09	1.17
BREAST (FEMALE)	1.95	1.20	1.02	1.65
THYROID	-	-	-	-
BONES & JOINTS	0.63	0.49	1.03	1.35
BLADDER	-	2.15	-	-
BRAIN & OTHER C.N.S.	1.90	1.90	1.18	1.18
BENIGN & UNSPEC NEOPLASMS	-	1.21	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.14

Age at death: 40 to 59

Nine Mile Point 1/Fitzpatrick (1969)
Oswego, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	19	0.82	52	0.80	15	0.83	36	0.83
ALL CANCER, EXCL LEUK	639	1.02	1773	1.00	640	1.11	1438	1.03
HODGKIN'S DISEASE	8	0.86	22	0.85	4	0.87	16	1.45
OTHER LYMPHOMA	15	0.77	64	1.18	17	0.91	39	0.87
MULTIPLE MYELOMA	10	1.52	14	0.75	9	1.32	13	0.79
DIGESTIVE ORGANS	189	1.08	492	1.00	148	1.18	340	1.13
STOMACH	25	0.73	92	0.94	14	0.85	38	0.95
COLON & RECTUM	105	1.37	239	1.11	81	1.41	169	1.22
LIVER (PRIMARY)	23	1.22	46	0.85	6	0.89	20	1.23
TRACHEA, BRONCHUS, LUNG	112	0.96	332	1.02	199	1.17	436	1.07
BREAST (FEMALE)	96	1.09	266	1.09	87	1.08	200	1.03
THYROID	2	0.90	6	0.95	3	2.37	4	1.31
BONES & JOINTS	2	0.51	9	0.81	0	0.00	3	0.68
BLADDER	19	1.88	27	0.94	6	0.91	14	0.88
BRAIN & OTHER C.N.S.	20	0.83	54	0.81	17	0.77	55	1.04
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	2	0.36	14	1.02

Table 1-B.14

Age at death: 40 to 59

Nine Mile Point 1/Fitzpatrick (1969)
Oswego, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.03	1.00	1.01	1.04
ALL CANCER, EXCL LEUK	1.02	1.08	1.09	1.03
HODGKIN'S DISEASE	1.01	0.60	1.01	1.71
OTHER LYMPHOMA	0.65	1.05	1.18	0.74
MULTIPLE MYELOMA	2.03	1.67	0.87	1.05
DIGESTIVE ORGANS	1.08	1.04	1.09	1.13
STOMACH	0.78	0.89	1.16	1.01
COLON & RECTUM	1.23	1.16	1.03	1.10
LIVER (PRIMARY)	1.44	0.72	0.73	1.45
TRACHEA, BRONCHUS, LUNG	0.94	1.09	1.22	1.05
BREAST (FEMALE)	1.00	1.05	0.99	0.94
THYROID	0.95	1.81	2.63	1.38
BONES & JOINTS	0.63	0.00	0.00	0.84
BLADDER	2.00*	1.03	0.48	0.94
BRAIN & OTHER C.N.S.	1.02	0.74	0.93	1.28
BENIGN & UNSPEC NEOPLASMS	-	0.35	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.14

Age at death: 60 plus

Nine Mile Point 1/Fitzpatrick (1969)
Oswego, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	73	0.99	198	0.92	75	1.06	222	1.13
ALL CANCER, EXCL LEUK	1794	0.94	5514	0.98	1920	1.05	5260	1.04
HODGKIN'S DISEASE	7	0.57	37	1.04	8	1.11	21	1.07
OTHER LYMPHOMA	42	0.96	126	0.99	56	0.98	153	0.98
MULTIPLE MYELOMA	16	0.80	67	1.15	26	0.86	81	0.98
DIGESTIVE ORGANS	732	0.93	2196	0.95	616	1.08	1723	1.09
STOMACH	132	0.73	406	0.76	76	1.00	169	0.79
COLON & RECTUM	372	1.08	1146	1.13	305	1.06	935	1.17
LIVER (PRIMARY)	76	0.87	224	0.88	19	0.70	74	0.99
TRACHEA, BRONCHUS, LUNG	224	0.87	714	0.95	469	1.06	1270	1.07
BREAST (FEMALE)	155	1.10	475	1.14	140	1.00	397	1.03
THYROID	5	0.61	24	1.00	8	1.51	8	0.54
BONES & JOINTS	19	1.64	27	0.79	8	1.50	18	1.21
BLADDER	83	1.11	287	1.31	78	1.33	204	1.24
BRAIN & OTHER C.N.S.	12	0.65	39	0.72	38	1.08	68	0.72
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	18	1.21	51	1.23

Table 1-B.14

Age at death: 60 plus

Nine Mile Point 1/Fitzpatrick (1969)
Oswego, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.08	0.94	1.07	1.23*
ALL CANCER, EXCL LEUK	0.96	1.01	1.12***	1.06**
HODGKIN'S DISEASE	0.55	1.04	1.95	1.03
OTHER LYMPHOMA	0.97	1.00	1.02	0.99
MULTIPLE MYELOMA	0.70	0.88	1.08	0.85
DIGESTIVE ORGANS	0.98	0.99	1.16**	1.15***
STOMACH	0.96	1.27	1.37*	1.04
COLON & RECTUM	0.96	0.91	0.98	1.04
LIVER (PRIMARY)	0.99	0.71	0.80	1.13
TRACHEA, BRONCHUS, LUNG	0.92	0.99	1.22*	1.13*
BREAST (FEMALE)	0.96	0.97	0.91	0.90
THYROID	0.61	2.80	2.48	0.54
BONES & JOINTS	2.08*	1.24	0.91	1.53
BLADDER	0.85	1.07	1.20	0.95
BRAIN & OTHER C.N.S.	0.90	1.50	1.66	1.00
BENIGN & UNSPEC NEOPLASMS	-	0.98	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.14

Age at death: all

Nine Mile Point 1/Fitzpatrick (1969)
Oswego, NY

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	124	0.95	336	0.92	109	0.98	299	1.05
ALL CANCER, EXCL LEUK	2554	0.96	7567	0.98	2656	1.06	6908	1.05
HODGKIN'S DISEASE	28	0.89	91	1.05	20	1.12	57	1.32
OTHER LYMPHOMA	68	0.94	206	1.00	84	1.02	209	0.97
MULTIPLE MYELOMA	26	0.97	82	1.05	35	0.94	95	0.95
DIGESTIVE ORGANS	934	0.96	2731	0.96	778	1.11	2092	1.10
STOMACH	158	0.72	502	0.78	90	0.95	211	0.82
COLON & RECTUM	484	1.13	1404	1.12	397	1.14	1122	1.19
LIVER (PRIMARY)	101	0.94	273	0.87	26	0.74	99	1.05
TRACHEA, BRONCHUS, LUNG	345	0.91	1070	0.98	677	1.09	1729	1.07
BREAST (FEMALE)	265	1.10	760	1.10	239	1.04	619	1.03
THYROID	7	0.65	30	0.96	11	1.62	12	0.66
BONES & JOINTS	25	1.23	42	0.73	9	0.81	27	0.99
BLADDER	102	1.20	314	1.26	85	1.30	219	1.21
BRAIN & OTHER C.N.S.	52	0.86	132	0.79	69	0.99	152	0.88
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	26	1.09	74	1.18

Table 1-B.14

Age at death: all

Nine Mile Point 1/Fitzpatrick (1969)
Oswego, NY

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.03	0.93	1.03	1.14
ALL CANCER, EXCL LEUK	0.98	1.01	1.10***	1.07***
HODGKIN'S DISEASE	0.85	0.85	1.26	1.26
OTHER LYMPHOMA	0.94	1.05	1.09	0.97
MULTIPLE MYELOMA	0.92	0.99	0.97	0.90
DIGESTIVE ORGANS	1.00	1.01	1.16**	1.15***
STOMACH	0.92	1.16	1.32*	1.05
COLON & RECTUM	1.01	0.96	1.01	1.06
LIVER (PRIMARY)	1.08	0.70	0.79	1.21
TRACHEA, BRONCHUS, LUNG	0.93	1.02	1.20**	1.09*
BREAST (FEMALE)	1.00	1.01	0.95	0.94
THYROID	0.68	2.45	2.49	0.69
BONES & JOINTS	1.68	0.82	0.66	1.36
BLADDER	0.95	1.07	1.08	0.96
BRAIN & OTHER C.N.S.	1.09	1.13	1.15	1.11
BENIGN & UNSPEC NEOPLASMS	-	0.92	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.15

Age at death: under 10

Oyster Creek 1 (1969)
Ocean, NJ

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	17	0.87	96	1.00	10	0.64	41	1.01
ALL CANCER, EXCL LEUK	25	1.25	89	0.91	20	1.00	31	0.61
HODGKIN'S DISEASE	0	0.00	1	0.65	0	0.00	1	2.31
OTHER LYMPHOMA	2	0.73	13	0.96	2	0.94	5	0.90
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	0.98	1	0.20	4	3.89	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	1	1.67	1	0.34	2	2.54	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	1	1.29	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	3	0.83	1	1.50	1	0.58
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	11	1.35	33	0.82	6	0.84	18	0.98
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	3	1.31	9	1.50

Table 1-B.15

Age at death: under 10

Oyster Creek 1 (1969)
Ocean, NJ

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.87	0.63	0.74	1.01
ALL CANCER, EXCL LEUK	1.37	1.64	0.80	0.67
HODGKIN'S DISEASE	0.00	0.00	-	3.55
OTHER LYMPHOMA	0.76	1.04	1.29	0.94
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	4.90	-	3.97	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	4.91	-	1.52	0.00
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	2.59	-	0.70
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.65	0.86	0.62	1.20
BENIGN & UNSPEC NEOPLASMS	-	0.87	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.15

Age at death: 10 to 19

Oyster Creek 1 (1969)
Ocean, NJ

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	15	1.82	42	0.99	13	1.01	38	0.98
ALL CANCER, EXCL LEUK	10	0.64	82	1.03	19	0.83	66	0.95
HODGKIN'S DISEASE	1	0.59	13	1.49	0	0.00	10	2.05
OTHER LYMPHOMA	5	2.13	12	1.00	2	0.60	11	1.08
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	4	1.07	2	1.95	2	0.64
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	1	0.99
LIVER (PRIMARY)	0	0.00	2	1.59	2	4.48	1	0.75
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	1	1.46
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.35	10	0.67	0	0.00	11	0.85
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	2	0.52	16	0.81	7	1.16	19	1.05
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	0	0.00	7	1.48

Table 1-B.15

Age at death: 10 to 19

Oyster Creek 1 (1969)
Ocean, NJ

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.84	1.03	0.55	0.99
ALL CANCER, EXCL LEUK	0.62	0.87	1.30	0.92
HODGKIN'S DISEASE	0.40	0.00	0.00	1.38
OTHER LYMPHOMA	2.13	0.56	0.28	1.08
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	3.05	-	0.60
STOMACH	-	-	-	-
COLON & RECTUM	-	0.00	-	-
LIVER (PRIMARY)	0.00	5.97	-	0.47
TRACHEA, BRONCHUS, LUNG	-	0.00	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.52	0.00	0.00	1.27
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.64	1.10	2.23	1.30
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.15

Age at death: 20 to 39

Oyster Creek 1 (1969)
Ocean, NJ

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	13	1.03	63	0.97	25	1.14	57	0.92
ALL CANCER, EXCL LEUK	121	1.07	551	0.93	189	1.08	486	1.01
HODGKIN'S DISEASE	7	0.65	44	0.81	20	1.62	37	1.04
OTHER LYMPHOMA	6	0.94	29	0.89	12	1.05	30	0.94
MULTIPLE MYELOMA	1	2.05	4	1.55	1	1.36	2	1.01
DIGESTIVE ORGANS	25	1.32	101	1.00	27	1.07	65	0.94
STOMACH	6	1.55	22	1.06	5	1.21	7	0.62
COLON & RECTUM	9	0.96	46	0.92	11	0.89	36	1.06
LIVER (PRIMARY)	4	2.13	11	1.12	2	0.81	8	1.18
TRACHEA, BRONCHUS, LUNG	8	0.92	42	0.94	24	1.42	40	0.86
BREAST (FEMALE)	21	1.36	77	0.93	26	0.94	73	0.99
THYROID	0	0.00	0	0.00	2	4.39	1	0.79
BONES & JOINTS	3	1.50	12	1.18	4	1.22	8	0.82
BLADDER	2	4.29	4	1.60	1	1.77	3	1.94
BRAIN & OTHER C.N.S.	7	0.71	47	0.91	20	1.17	43	0.90
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	6	1.43	15	1.24

Table 1-B.15

Age at death: 20 to 39

Oyster Creek 1 (1969)
Ocean, NJ

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.06	1.24	1.11	0.95
ALL CANCER, EXCL LEUK	1.15	1.07	1.01	1.09
HODGKIN'S DISEASE	0.80	1.56	2.49*	1.28
OTHER LYMPHOMA	1.06	1.12	1.12	1.06
MULTIPLE MYELOMA	1.32	1.35	0.66	0.65
DIGESTIVE ORGANS	1.32	1.14	0.81	0.94
STOMACH	1.46	1.95	0.78	0.58
COLON & RECTUM	1.04	0.84	0.93	1.15
LIVER (PRIMARY)	1.90	0.69	0.38	1.05
TRACHEA, BRONCHUS, LUNG	0.98	1.65	1.54	0.91
BREAST (FEMALE)	1.46	0.95	0.69	1.06
THYROID	-	5.56	-	-
BONES & JOINTS	1.27	1.49	0.81	0.69
BLADDER	2.68	0.91	0.41	1.21
BRAIN & OTHER C.N.S.	0.78	1.30	1.65	0.99
BENIGN & UNSPEC NEOPLASMS	-	1.15	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.15

Age at death: 40 to 59

Oyster Creek 1 (1969)
Ocean, NJ

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	39	1.22	147	0.98	51	1.06	161	1.09
ALL CANCER, EXCL LEUK	1016	1.14	4145	1.02	1838	1.17	4665	0.98
HODGKIN'S DISEASE	15	1.18	57	0.93	14	1.21	35	0.94
OTHER LYMPHOMA	28	1.01	123	0.97	36	0.73	147	0.97
MULTIPLE MYELOMA	4	0.41	45	1.05	25	1.32	52	0.91
DIGESTIVE ORGANS	320	1.31	1243	1.12	383	1.13	1067	1.04
STOMACH	64	1.38	247	1.15	32	0.72	120	0.87
COLON & RECTUM	156	1.47	601	1.25	201	1.29	547	1.17
LIVER (PRIMARY)	31	1.19	113	0.95	19	1.03	41	0.73
TRACHEA, BRONCHUS, LUNG	193	1.15	704	0.93	557	1.22	1240	0.89
BREAST (FEMALE)	138	1.07	587	1.02	266	1.17	666	1.01
THYROID	3	0.98	27	1.93	3	0.88	10	0.97
BONES & JOINTS	6	1.14	22	0.89	5	1.04	9	0.60
BLADDER	25	1.80	85	1.35	32	1.85	67	1.25
BRAIN & OTHER C.N.S.	38	1.15	148	0.96	54	0.93	166	0.93
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	11	0.76	42	0.92

Table 1-B.15

Age at death: 40 to 59

Oyster Creek 1 (1969)
Ocean, NJ

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.24	0.97	0.87	1.11
ALL CANCER, EXCL LEUK	1.12**	1.19***	1.03	0.96
HODGKIN'S DISEASE	1.27	1.29	1.03	1.01
OTHER LYMPHOMA	1.04	0.75	0.72	1.00
MULTIPLE MYELOMA	0.39	1.45	3.22*	0.87
DIGESTIVE ORGANS	1.17*	1.09	0.86	0.93
STOMACH	1.20	0.83	0.52**	0.76*
COLON & RECTUM	1.18	1.10	0.88	0.94
LIVER (PRIMARY)	1.25	1.41	0.87	0.77
TRACHEA, BRONCHUS, LUNG	1.24*	1.37***	1.06	0.96
BREAST (FEMALE)	1.05	1.16	1.09	0.99
THYROID	0.51	0.91	0.90	0.50
BONES & JOINTS	1.28	1.73	0.91	0.67
BLADDER	1.33	1.48	1.03	0.93
BRAIN & OTHER C.N.S.	1.20	1.00	0.81	0.97
BENIGN & UNSPEC NEOPLASMS	-	0.83	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.15

Age at death: 60 plus

Oyster Creek 1 (1969)
Ocean, NJ

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	98	0.79	350	0.93	372	0.99	493	0.98
ALL CANCER, EXCL LEUK	3378	1.07	10447	1.07	10805	1.09	14135	1.06
HODGKIN'S DISEASE	13	0.63	60	0.95	34	0.92	57	1.11
OTHER LYMPHOMA	56	0.71	194	0.85	278	0.90	365	0.89
MULTIPLE MYELOMA	27	0.72	109	1.02	149	0.90	235	1.06
DIGESTIVE ORGANS	1354	1.09	4319	1.10	3504	1.17	4476	1.10
STOMACH	272	1.02	965	1.09	471	1.19	594	1.09
COLON & RECTUM	643	1.17	1961	1.13	1858	1.24	2308	1.13
LIVER (PRIMARY)	160	1.22	472	1.09	165	1.14	235	1.20
TRACHEA, BRONCHUS, LUNG	612	1.22	1475	1.07	2846	1.15	3312	1.02
BREAST (FEMALE)	251	1.10	720	0.98	819	1.12	1084	1.05
THYROID	12	0.94	45	1.09	18	0.67	39	1.03
BONES & JOINTS	32	1.83	62	1.08	29	1.09	31	0.83
BLADDER	188	1.59	486	1.32	356	1.14	494	1.20
BRAIN & OTHER C.N.S.	27	0.75	101	0.99	200	1.04	239	0.93
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	66	0.90	95	0.91

Table 1-B.15

Age at death: 60 plus

Oyster Creek 1 (1969)
Ocean, NJ

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.85	1.01	1.25*	1.05
ALL CANCER, EXCL LEUK	1.00	1.03*	1.02	0.99
HODGKIN'S DISEASE	0.66	0.83	1.46	1.17
OTHER LYMPHOMA	0.84	1.01	1.27	1.05
MULTIPLE MYELOMA	0.71	0.85	1.25	1.04
DIGESTIVE ORGANS	0.99	1.06**	1.07*	1.00
STOMACH	0.94	1.09	1.17*	1.00
COLON & RECTUM	1.04	1.10**	1.06	1.00
LIVER (PRIMARY)	1.12	0.95	0.93	1.10
TRACHEA, BRONCHUS, LUNG	1.14**	1.13***	0.94	0.95
BREAST (FEMALE)	1.12	1.07	1.02	1.07
THYROID	0.86	0.65	0.71	0.94
BONES & JOINTS	1.69*	1.31	0.60	0.77
BLADDER	1.20*	0.95	0.72***	0.91
BRAIN & OTHER C.N.S.	0.76	1.12	1.39	0.94
BENIGN & UNSPEC NEOPLASMS	-	0.99	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-B.15

Age at death: all

Oyster Creek 1 (1969)
Ocean, NJ

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	182	0.92	698	0.96	471	0.99	790	1.00
ALL CANCER, EXCL LEUK	4550	1.08	15314	1.05	12871	1.10	19383	1.04
HODGKIN'S DISEASE	36	0.78	175	0.93	68	1.08	140	1.08
OTHER LYMPHOMA	97	0.82	371	0.90	330	0.88	558	0.91
MULTIPLE MYELOMA	32	0.67	158	1.03	175	0.94	289	1.03
DIGESTIVE ORGANS	1700	1.13	5668	1.10	3920	1.17	5610	1.08
STOMACH	342	1.08	1234	1.10	508	1.15	721	1.04
COLON & RECTUM	808	1.21	2608	1.15	2070	1.24	2892	1.14
LIVER (PRIMARY)	196	1.22	599	1.06	190	1.14	285	1.09
TRACHEA, BRONCHUS, LUNG	813	1.20	2222	1.02	3427	1.16	4593	0.98
BREAST (FEMALE)	410	1.10	1384	0.99	1111	1.12	1823	1.03
THYROID	15	0.92	72	1.25	23	0.74	50	1.01
BONES & JOINTS	42	1.48	109	0.99	39	0.98	60	0.78
BLADDER	215	1.62	575	1.33	389	1.18	564	1.20
BRAIN & OTHER C.N.S.	85	0.94	345	0.94	287	1.02	485	0.93
BENIGN & UNSPEC NEOPLASMS	0	-	0	-	86	0.90	168	0.97

Table 1-B.15

Age at death: all

Oyster Creek 1 (1969)
Ocean, NJ

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.96	0.99	1.08	1.04
ALL CANCER, EXCL LEUK	1.03	1.06***	1.02	0.99
HODGKIN'S DISEASE	0.84	1.00	1.38	1.16
OTHER LYMPHOMA	0.91	0.97	1.07	1.01
MULTIPLE MYELOMA	0.65*	0.91	1.40	1.00
DIGESTIVE ORGANS	1.03	1.08***	1.04	0.98
STOMACH	0.98	1.11	1.06	0.95
COLON & RECTUM	1.05	1.09**	1.02	0.99
LIVER (PRIMARY)	1.15	1.05	0.93	1.03
TRACHEA, BRONCHUS, LUNG	1.18***	1.18***	0.97	0.96
BREAST (FEMALE)	1.11	1.09*	1.02	1.04
THYROID	0.74	0.73	0.80	0.81
BONES & JOINTS	1.49*	1.26	0.66	0.79
BLADDER	1.22*	0.98	0.73***	0.90
BRAIN & OTHER C.N.S.	1.00	1.10	1.09	0.99
BENIGN & UNSPEC NEOPLASMS	-	0.93	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.1(MORT)

Age at death: under 10

Millstone 1,2,3 (1970)
New London, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	33	0.96	138	1.02	17	1.45	34	0.79
ALL CANCER, EXCL LEUK	33	0.94	135	0.98	13	0.87	36	0.66
HODGKIN'S DISEASE	0	0.00	2	0.93	0	0.00	0	0.00
OTHER LYMPHOMA	3	0.62	14	0.74	0	0.00	6	1.02
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	2	1.10	3	0.42	1	1.31	0	0.00
STOMACH	0	0.00	0	0.00	1	55.13	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	1	0.94	1	0.24	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	1	0.90	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	4	3.17	5	0.99	1	2.01	1	0.54
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	11	0.77	59	1.06	6	1.12	14	0.72
BENIGN & UNSPEC NEOPLASMS	0	0.00	2	2.34	3	1.70	4	0.64

Table 1-C.1(MORT)

Age at death: under 10

Millstone 1,2,3 (1970)
New London, CT

Disease	Relative Risks: Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.94	1.84	1.51	0.77
ALL CANCER, EXCL LEUK	0.96	1.32	0.93	0.67*
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	0.84	0.00	0.00	1.38
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	2.62	-	1.19	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	3.92	-	0.00	0.00
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	3.20	3.72	0.63	0.55
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.73	1.56	1.45	0.68
BENIGN & UNSPEC NEOPLASMS	0.00	2.66	-	0.27

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.1(MORT)

Age at death: 10 to 19

Millstone 1,2,3 (1970)
New London, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	13	0.88	59	0.95	12	1.08	48	1.13
ALL CANCER, EXCL LEUK	19	0.67	100	0.85	21	1.04	61	0.80
HODGKIN'S DISEASE	2	0.65	15	1.17	1	0.71	7	1.31
OTHER LYMPHOMA	6	1.43	13	0.74	0	0.00	9	0.81
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	5	0.90	1	1.08	2	0.59
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	2	0.96	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	2	1.09	0	0.00	2	1.37
TRACHEA, BRONCHUS, LUNG	0	0.00	2	1.49	1	5.11	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	1	3.03	0	0.00	0	0.00
BONES & JOINTS	4	0.76	21	0.95	7	1.88	11	0.78
BLADDER	0	0.00	1	9.31	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	3	0.43	14	0.48	6	1.16	19	0.97
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	1.53	2	1.52	6	1.21

Table 1-C.1(MORT)

Age at death: 10 to 19

Millstone 1,2,3 (1970)
New London, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.93	0.96	1.23	1.19
ALL CANCER, EXCL LEUK	0.79	1.30	1.55	0.94
HODGKIN'S DISEASE	0.56	0.54	1.09	1.12
OTHER LYMPHOMA	1.93	0.00	0.00	1.09
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	1.83	-	0.66
STOMACH	-	-	-	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	0.00	0.00	-	1.26
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	0.00	-	-	0.00
BONES & JOINTS	0.80	2.41	2.47	0.82
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	0.90	1.20	2.70	2.02
BENIGN & UNSPEC NEOPLASMS	0.00	1.26	-	0.79

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.1(MORT)

Age at death: 20 to 39

Millstone 1,2,3 (1970)
New London, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	15	0.60	67	0.72	26	1.28	74	1.06
ALL CANCER, EXCL LEUK	195	0.92	794	0.96	137	0.92	495	0.94
HODGKIN'S DISEASE	20	0.96	106	1.36	11	0.95	41	1.04
OTHER LYMPHOMA	9	0.73	56	1.21	9	0.87	31	0.87
MULTIPLE MYELOMA	0	0.00	4	1.16	2	3.28	3	1.43
DIGESTIVE ORGANS	19	0.54	144	1.04	14	0.65	53	0.72
STOMACH	6	0.82	33	1.16	3	0.86	6	0.50
COLON & RECTUM	8	0.46	73	1.05	6	0.58	24	0.66
LIVER (PRIMARY)	3	0.84	15	1.11	4	1.80	12	1.63
TRACHEA, BRONCHUS, LUNG	11	0.70	44	0.73	13	0.94	45	0.92
BREAST (FEMALE)	35	1.28	111	0.98	21	1.00	75	0.96
THYROID	0	0.00	4	1.43	1	2.58	2	1.46
BONES & JOINTS	7	1.67	9	0.59	7	2.04	8	0.71
BLADDER	0	0.00	5	1.46	0	0.00	2	1.21
BRAIN & OTHER C.N.S.	12	0.63	57	0.77	17	1.13	38	0.72
BENIGN & UNSPEC NEOPLASMS	0	0.00	3	2.15	6	1.57	10	0.77

Table 1-C.1(MORT)

Age at death: 20 to 39

Millstone 1,2,3 (1970)
New London, CT

Disease	Relative Risks: Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.83	1.21	2.13*	1.47*
ALL CANCER, EXCL LEUK	0.96	0.98	1.00	0.98
HODGKIN'S DISEASE	0.71	0.91	0.99	0.76
OTHER LYMPHOMA	0.60	1.00	1.19	0.72
MULTIPLE MYELOMA	0.00	2.29	-	1.23
DIGESTIVE ORGANS	0.52**	0.90	1.20	0.69*
STOMACH	0.71	1.72	1.05	0.43
COLON & RECTUM	0.44*	0.88	1.26	0.63
LIVER (PRIMARY)	0.76	1.10	2.14	1.47
TRACHEA, BRONCHUS, LUNG	0.96	1.02	1.34	1.26
BREAST (FEMALE)	1.31	1.04	0.78	0.98
THYROID	0.00	1.77	-	1.02
BONES & JOINTS	2.83	2.87	1.22	1.20
BLADDER	0.00	0.00	-	0.83
BRAIN & OTHER C.N.S.	0.82	1.57	1.79	0.94
BENIGN & UNSPEC NEOPLASMS	0.00	2.04	-	0.36

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.1(MORT)

Age at death: 40 to 59

Millstone 1,2,3 (1970)
New London, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	48	0.93	221	0.91	34	0.89	119	0.78
ALL CANCER, EXCL LEUK	1416	0.99	6437	0.97	1330	1.07	4830	0.98
HODGKIN'S DISEASE	18	0.87	112	1.16	17	1.81	46	1.22
OTHER LYMPHOMA	61	1.38	199	0.96	35	0.90	147	0.94
MULTIPLE MYELOMA	12	0.79	70	1.00	17	1.13	45	0.77
DIGESTIVE ORGANS	416	1.07	1812	0.99	336	1.25	1121	1.06
STOMACH	89	1.18	374	1.06	36	1.00	172	1.23
COLON & RECTUM	191	1.13	825	1.03	163	1.34	526	1.08
LIVER (PRIMARY)	38	0.92	153	0.79	10	0.67	35	0.61
TRACHEA, BRONCHUS, LUNG	266	0.99	1127	0.91	379	1.03	1282	0.89
BREAST (FEMALE)	185	0.91	1024	1.07	175	1.02	687	1.00
THYROID	5	1.02	15	0.65	7	2.61	10	0.93
BONES & JOINTS	4	0.46	41	1.01	4	1.03	13	0.85
BLADDER	13	0.59	101	0.97	17	1.22	66	1.19
BRAIN & OTHER C.N.S.	42	0.78	246	0.97	42	0.91	183	0.99
BENIGN & UNSPEC NEOPLASMS	2	1.48	6	1.04	11	0.95	49	1.06

Table 1-C.1(MORT)

Age at death: 40 to 59

Millstone 1,2,3 (1970)
New London, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.02	1.14	0.96	0.86
ALL CANCER, EXCL LEUK	1.02	1.09**	1.08*	1.01
HODGKIN'S DISEASE	0.75	1.48	2.08*	1.05
OTHER LYMPHOMA	1.44*	0.96	0.65*	0.98
MULTIPLE MYELOMA	0.79	1.47	1.43	0.77
DIGESTIVE ORGANS	1.08	1.18*	1.17*	1.07
STOMACH	1.11	0.81	0.85	1.16
COLON & RECTUM	1.10	1.24*	1.19	1.05
LIVER (PRIMARY)	1.16	1.10	0.73	0.77
TRACHEA, BRONCHUS, LUNG	1.09	1.16*	1.04	0.98
BREAST (FEMALE)	0.85*	1.02	1.12	0.93
THYROID	1.57	2.81	2.56	1.43
BONES & JOINTS	0.46	1.21	2.24	0.84
BLADDER	0.61	1.03	2.07	1.23
BRAIN & OTHER C.N.S.	0.80	0.92	1.17	1.02
BENIGN & UNSPEC NEOPLASMS	1.42	0.90	0.64	1.02

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.1(MORT)

Age at death: 60 plus

Millstone 1,2,3 (1970)
New London, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	137	0.94	616	0.87	133	0.93	647	0.98
ALL CANCER, EXCL LEUK	4143	1.09	18944	1.03	4269	1.14	17820	1.04
HODGKIN'S DISEASE	15	0.62	169	1.44	15	1.06	90	1.38
OTHER LYMPHOMA	96	1.08	407	0.94	145	1.25	506	0.94
MULTIPLE MYELOMA	29	0.70	216	1.07	44	0.70	271	0.95
DIGESTIVE ORGANS	1648	1.07	8075	1.08	1433	1.23	5874	1.10
STOMACH	336	0.98	1881	1.13	180	1.16	911	1.29
COLON & RECTUM	778	1.14	3708	1.12	777	1.33	2951	1.09
LIVER (PRIMARY)	154	0.93	733	0.91	48	0.87	207	0.82
TRACHEA, BRONCHUS, LUNG	571	1.08	2360	0.93	942	1.04	3645	0.90
BREAST (FEMALE)	341	1.15	1509	1.05	356	1.20	1616	1.18
THYROID	11	0.68	62	0.78	11	1.01	46	0.91
BONES & JOINTS	20	0.90	101	0.93	7	0.66	41	0.84
BLADDER	164	1.14	792	1.13	126	1.07	562	1.03
BRAIN & OTHER C.N.S.	48	1.21	179	0.93	68	0.95	332	1.02
BENIGN & UNSPEC NEOPLASMS	3	1.13	17	1.35	36	1.22	202	1.48

Table 1-C.1(MORT)

Age at death: 60 plus

Millstone 1,2,3 (1970)
New London, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.08	0.95	0.99	1.13*
ALL CANCER, EXCL LEUK	1.06***	1.10***	1.05*	1.01
HODGKIN'S DISEASE	0.43***	0.77	1.71	0.96
OTHER LYMPHOMA	1.15	1.33**	1.16	1.00
MULTIPLE MYELOMA	0.65*	0.74	1.00	0.89
DIGESTIVE ORGANS	0.99	1.12***	1.15***	1.02
STOMACH	0.87*	0.90	1.18	1.14***
COLON & RECTUM	1.02	1.22***	1.17**	0.97
LIVER (PRIMARY)	1.02	1.06	0.94	0.90
TRACHEA, BRONCHUS, LUNG	1.16**	1.16***	0.96	0.97
BREAST (FEMALE)	1.10	1.02	1.04	1.12**
THYROID	0.87	1.11	1.49	1.17
BONES & JOINTS	0.97	0.79	0.73	0.90
BLADDER	1.01	1.04	0.94	0.91
BRAIN & OTHER C.N.S.	1.30	0.93	0.79	1.10
BENIGN & UNSPEC NEOPLASMS	0.84	0.82	1.08	1.10

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.1(MORT)

Age at death: all

Millstone 1,2,3 (1970)
New London, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	246	0.91	1101	0.88	222	0.99	922	0.95
ALL CANCER, EXCL LEUK	5806	1.05	26410	1.01	5770	1.11	23242	1.02
HODGKIN'S DISEASE	55	0.79	404	1.32	44	1.20	184	1.24
OTHER LYMPHOMA	175	1.13	689	0.95	189	1.11	699	0.94
MULTIPLE MYELOMA	41	0.71	290	1.05	63	0.80	319	0.92
DIGESTIVE ORGANS	2085	1.06	10039	1.06	1785	1.23	7050	1.09
STOMACH	431	1.01	2288	1.12	220	1.13	1089	1.27
COLON & RECTUM	977	1.12	4608	1.10	946	1.32	3501	1.09
LIVER (PRIMARY)	196	0.92	904	0.88	62	0.84	256	0.80
TRACHEA, BRONCHUS, LUNG	848	1.04	3534	0.92	1335	1.04	4972	0.90
BREAST (FEMALE)	561	1.07	2644	1.05	552	1.13	2378	1.11
THYROID	16	0.73	82	0.77	19	1.36	58	0.93
BONES & JOINTS	39	0.94	177	0.93	26	1.18	74	0.81
BLADDER	177	1.06	899	1.11	143	1.08	630	1.05
BRAIN & OTHER C.N.S.	116	0.87	555	0.92	139	0.97	586	0.97
BENIGN & UNSPEC NEOPLASMS	5	1.03	29	1.37	58	1.21	271	1.31

Table 1-C.1(MORT)

Age at death: all

Millstone 1,2,3 (1970)
New London, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.03	1.04	1.09	1.08
ALL CANCER, EXCL LEUK	1.04**	1.09***	1.06**	1.01
HODGKIN'S DISEASE	0.60***	0.97	1.52	0.94
OTHER LYMPHOMA	1.19*	1.18*	0.98	0.99
MULTIPLE MYELOMA	0.68*	0.87	1.13	0.88
DIGESTIVE ORGANS	1.00	1.13***	1.16***	1.03
STOMACH	0.90	0.89	1.12	1.13***
COLON & RECTUM	1.02	1.21***	1.18***	0.99
LIVER (PRIMARY)	1.05	1.05	0.91	0.91
TRACHEA, BRONCHUS, LUNG	1.13***	1.16***	1.00	0.98
BREAST (FEMALE)	1.02	1.02	1.06	1.06
THYROID	0.95	1.46	1.86	1.21
BONES & JOINTS	1.01	1.46	1.26	0.87
BLADDER	0.95	1.03	1.02	0.95
BRAIN & OTHER C.N.S.	0.95	1.00	1.11	1.05
BENIGN & UNSPEC NEOPLASMS	0.75	0.92	1.17	0.96

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.1(INC)

Age at diagnosis: under 10

Millstone 1,2,3 (1970)
New London, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	49	1.19	42	1.02	44	1.55	15	0.51
ALL CANCER, EXCL LEUK	62	0.86	65	0.91	40	0.86	42	0.86
HODGKIN'S DISEASE	2	1.01	3	1.47	0	0.00	1	0.76
OTHER LYMPHOMA	6	1.09	6	1.09	2	0.53	4	0.97
MULTIPLE MYELOMA	0	-	0	-	0	-	0	-
DIGESTIVE ORGANS	2	0.64	2	0.65	2	0.87	3	1.19
STOMACH	0	-	0	-	0	-	0	-
COLON & RECTUM	0	-	0	-	0	-	0	-
LIVER (PRIMARY)	2	1.53	1	0.74	0	0.00	2	1.89
TRACHEA, BRONCHUS, LUNG	0	0.00	1	5.69	0	-	0	-
BREAST (FEMALE)	0	-	0	-	0	-	0	-
THYROID	0	0.00	0	0.00	0	0.00	1	1.30
BONES & JOINTS	4	1.38	2	0.68	1	0.64	2	1.30
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	18	0.81	18	0.81	13	1.02	14	1.04

Table 1-C.1(INC)

Age at diagnosis: under 10

Millstone 1,2,3 (1970)
New London, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.17	3.04***	1.30	0.50*
ALL CANCER, EXCL LEUK	0.95	1.00	1.00	0.95
HODGKIN'S DISEASE	0.69	0.00	0.00	0.52
OTHER LYMPHOMA	1.00	0.55	0.49	0.89
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.98	0.73	1.36	1.83
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	2.07	0.00	0.00	2.55
TRACHEA, BRONCHUS, LUNG	0.00	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	0.00	-	-
BONES & JOINTS	2.03	0.49	0.46	1.91
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.00	0.98	1.26	1.28

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-C.1(INC)

Age at diagnosis: 10 to 19

Millstone 1,2,3 (1970)
New London, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	9	0.57	12	0.71	14	0.97	12	0.75
ALL CANCER, EXCL LEUK	53	0.79	45	0.63	74	0.96	74	0.85
HODGKIN'S DISEASE	12	0.82	15	0.95	19	0.99	18	0.83
OTHER LYMPHOMA	9	1.29	1	0.14	8	1.03	5	0.57
MULTIPLE MYELOMA	0	-	0	-	0	-	0	-
DIGESTIVE ORGANS	0	0.00	1	0.49	3	1.28	2	0.79
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	1	0.93	1	0.85
LIVER (PRIMARY)	0	0.00	0	0.00	1	1.67	1	1.59
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	3	4.36	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	4	1.47	2	0.65	1	0.25	3	0.63
BONES & JOINTS	5	0.62	7	0.80	15	1.92	6	0.70
BLADDER	0	0.00	0	0.00	3	3.27	0	0.00
BRAIN & OTHER C.N.S.	7	0.66	7	0.61	12	1.05	15	1.15

Table 1-C.1(INC)

Age at diagnosis: 10 to 19

Millstone 1,2,3 (1970)
New London, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.80	1.29	1.70	1.06
ALL CANCER, EXCL LEUK	1.25	1.13	1.22	1.35
HODGKIN'S DISEASE	0.86	1.19	1.21	0.87
OTHER LYMPHOMA	9.21*	1.81	0.80	4.07
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	1.62	-	1.61
STOMACH	-	-	-	-
COLON & RECTUM	-	1.09	-	-
LIVER (PRIMARY)	-	1.05	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	2.26	0.40	0.17	0.97
BONES & JOINTS	0.78	2.74*	3.10*	0.88
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.08	0.91	1.59	1.89

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.1(INC)

Age at diagnosis: 20 to 39

Millstone 1,2,3 (1970)
New London, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	19	0.68	25	0.92	26	0.90	37	1.16
ALL CANCER, EXCL LEUK	496	0.84	502	0.84	571	0.92	690	0.98
HODGKIN'S DISEASE	41	0.81	40	0.82	45	0.70	71	1.03
OTHER LYMPHOMA	22	0.79	30	1.11	25	0.92	22	0.74
MULTIPLE MYELOMA	0	0.00	1	0.59	3	1.42	4	1.71
DIGESTIVE ORGANS	41	0.64	62	0.96	40	0.96	41	0.88
STOMACH	9	0.83	5	0.46	3	0.57	4	0.69
COLON & RECTUM	25	0.62	44	1.07	27	1.04	28	0.95
LIVER (PRIMARY)	1	0.53	2	1.16	3	1.56	1	0.47
TRACHEA, BRONCHUS, LUNG	20	1.07	17	0.93	23	0.89	27	0.90
BREAST (FEMALE)	90	0.77	89	0.72	101	0.93	133	1.02
THYROID	16	0.54	23	0.76	41	0.94	45	0.89
BONES & JOINTS	9	1.29	5	0.76	10	1.42	10	1.34
BLADDER	13	1.15	8	0.71	13	0.93	16	1.01
BRAIN & OTHER C.N.S.	22	0.81	22	0.82	34	1.11	33	0.99

Table 1-C.1(INC)

Age at diagnosis: 20 to 39

Millstone 1,2,3 (1970)
New London, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.74	0.78	1.32	1.26
ALL CANCER, EXCL LEUK	1.00	0.94	1.10	1.17*
HODGKIN'S DISEASE	0.99	0.68	0.86	1.26
OTHER LYMPHOMA	0.71	1.24	1.16	0.67
MULTIPLE MYELOMA	0.00	0.83	-	2.90
DIGESTIVE ORGANS	0.67	1.09	1.50	0.92
STOMACH	1.80	0.83	0.69	1.50
COLON & RECTUM	0.58*	1.09	1.68	0.89
LIVER (PRIMARY)	0.46	3.32	2.94	0.41
TRACHEA, BRONCHUS, LUNG	1.15	0.99	0.83	0.97
BREAST (FEMALE)	1.07	0.91	1.21	1.42*
THYROID	0.71	1.06	1.74	1.17
BONES & JOINTS	1.70	1.06	1.10	1.76
BLADDER	1.62	0.92	0.81	1.42
BRAIN & OTHER C.N.S.	0.99	1.12	1.37	1.21

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.1(INC)

Age at diagnosis: 40 to 59

Millstone 1,2,3 (1970)
New London, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	50	0.72	70	0.92	53	0.85	60	0.86
ALL CANCER, EXCL LEUK	2847	0.94	2910	0.88	2975	1.00	3106	0.94
HODGKIN'S DISEASE	29	0.96	21	0.64	22	0.96	34	1.30
OTHER LYMPHOMA	88	1.07	91	1.00	83	0.91	101	0.97
MULTIPLE MYELOMA	22	1.04	21	0.92	21	0.76	24	0.84
DIGESTIVE ORGANS	643	0.90	687	0.88	598	1.05	616	0.98
STOMACH	113	0.98	111	0.89	60	0.91	60	0.83
COLON & RECTUM	389	0.88	438	0.90	386	1.08	416	1.04
LIVER (PRIMARY)	10	0.88	9	0.76	13	0.85	10	0.59
TRACHEA, BRONCHUS, LUNG	342	1.05	306	0.85	504	1.10	446	0.88
BREAST (FEMALE)	548	0.86	623	0.90	595	0.92	697	0.96
THYROID	25	0.85	24	0.75	24	0.65	33	0.79
BONES & JOINTS	3	0.48	4	0.59	1	0.29	3	0.75
BLADDER	72	0.76	109	1.03	129	0.98	155	1.02
BRAIN & OTHER C.N.S.	77	1.13	69	0.91	61	1.03	68	1.01

Table 1-C.1(INC)

Age at diagnosis: 40 to 59

Millstone 1,2,3 (1970)
New London, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.78	0.99	1.18	0.93
ALL CANCER, EXCL LEUK	1.07**	1.06*	1.06*	1.07*
HODGKIN'S DISEASE	1.50	0.74	1.00	2.03*
OTHER LYMPHOMA	1.07	0.94	0.85	0.97
MULTIPLE MYELOMA	1.13	0.90	0.73	0.91
DIGESTIVE ORGANS	1.02	1.07	1.17**	1.11*
STOMACH	1.10	1.10	0.93	0.93
COLON & RECTUM	0.98	1.04	1.23**	1.16*
LIVER (PRIMARY)	1.16	1.44	0.97	0.78
TRACHEA, BRONCHUS, LUNG	1.24**	1.25***	1.05	1.04
BREAST (FEMALE)	0.96	0.96	1.07	1.07
THYROID	1.13	0.82	0.76	1.05
BONES & JOINTS	0.81	0.39	0.60	1.27
BLADDER	0.74	0.96	1.29	0.99
BRAIN & OTHER C.N.S.	1.24	1.02	0.91	1.11

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.1(INC)

Age at diagnosis: 60 plus

Millstone 1,2,3 (1970)
New London, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	182	0.88	192	0.87	207	0.97	251	1.00
ALL CANCER, EXCL LEUK	6344	0.92	6685	0.91	7327	0.98	8324	0.95
HODGKIN'S DISEASE	31	0.95	35	1.01	28	1.09	35	1.16
OTHER LYMPHOMA	128	0.89	154	1.00	191	0.94	207	0.87
MULTIPLE MYELOMA	44	0.65	49	0.68	69	0.72	103	0.94
DIGESTIVE ORGANS	2286	0.91	2487	0.93	2300	1.00	2520	0.94
STOMACH	404	0.85	464	0.93	209	0.81	261	0.87
COLON & RECTUM	1361	0.92	1423	0.91	1624	1.06	1710	0.96
LIVER (PRIMARY)	46	0.97	43	0.86	41	0.85	55	0.97
TRACHEA, BRONCHUS, LUNG	651	0.95	620	0.83	1141	1.03	1183	0.90
BREAST (FEMALE)	673	0.92	738	0.97	860	0.96	1072	1.04
THYROID	19	0.62	36	1.13	24	0.83	28	0.84
BONES & JOINTS	10	0.92	11	0.96	5	0.58	8	0.78
BLADDER	339	0.96	306	0.80	412	0.92	532	1.00
BRAIN & OTHER C.N.S.	61	1.15	39	0.68	70	0.89	97	1.04

Table 1-C.1(INC)

Age at diagnosis: 60 plus

Millstone 1,2,3 (1970)
New London, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.01	0.97	1.10	1.15
ALL CANCER, EXCL LEUK	1.01	1.03	1.07***	1.04*
HODGKIN'S DISEASE	0.94	0.94	1.15	1.15
OTHER LYMPHOMA	0.89	1.08	1.06	0.87
MULTIPLE MYELOMA	0.96	0.77	1.11	1.38
DIGESTIVE ORGANS	0.98	1.06*	1.10***	1.01
STOMACH	0.91	0.93	0.95	0.94
COLON & RECTUM	1.01	1.10**	1.15***	1.05
LIVER (PRIMARY)	1.13	0.88	0.88	1.13
TRACHEA, BRONCHUS, LUNG	1.14*	1.14**	1.08	1.08
BREAST (FEMALE)	0.95	0.92	1.04	1.07
THYROID	0.55*	0.99	1.34	0.74
BONES & JOINTS	0.96	0.74	0.63	0.81
BLADDER	1.20*	0.92	0.96	1.25**
BRAIN & OTHER C.N.S.	1.69*	0.86	0.77	1.53*

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.1(INC)

Age at diagnosis: all

Millstone 1,2,3 (1970)
New London, CT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	309	0.86	341	0.89	344	0.99	375	0.94
ALL CANCER, EXCL LEUK	9802	0.92	10207	0.90	10987	0.98	12236	0.95
HODGKIN'S DISEASE	115	0.89	114	0.85	114	0.85	159	1.07
OTHER LYMPHOMA	253	0.95	282	0.99	309	0.93	339	0.88
MULTIPLE MYELOMA	66	0.73	71	0.74	93	0.74	131	0.93
DIGESTIVE ORGANS	2972	0.90	3239	0.92	2943	1.01	3182	0.95
STOMACH	526	0.88	580	0.91	272	0.83	325	0.86
COLON & RECTUM	1775	0.91	1905	0.91	2038	1.07	2155	0.97
LIVER (PRIMARY)	59	0.95	55	0.84	58	0.86	69	0.89
TRACHEA, BRONCHUS, LUNG	1013	0.98	944	0.84	1671	1.05	1656	0.90
BREAST (FEMALE)	1311	0.89	1450	0.92	1556	0.94	1902	1.01
THYROID	64	0.69	85	0.87	90	0.79	110	0.84
BONES & JOINTS	31	0.89	29	0.79	32	1.12	29	0.91
BLADDER	424	0.92	423	0.85	557	0.93	703	1.00
BRAIN & OTHER C.N.S.	185	1.02	155	0.80	190	0.98	227	1.03

Table 1-C.1(INC)

Age at diagnosis: all

Millstone 1,2,3 (1970)
New London, CT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.97	1.05	1.15	1.06
ALL CANCER, EXCL LEUK	1.02	1.03*	1.07***	1.06***
HODGKIN'S DISEASE	1.05	0.79	0.96	1.26
OTHER LYMPHOMA	0.96	1.06	0.98	0.89
MULTIPLE MYELOMA	0.99	0.80	1.01	1.26
DIGESTIVE ORGANS	0.98	1.06*	1.12***	1.03
STOMACH	0.97	0.97	0.94	0.95
COLON & RECTUM	1.00	1.10**	1.18***	1.07*
LIVER (PRIMARY)	1.13	0.97	0.91	1.06
TRACHEA, BRONCHUS, LUNG	1.17***	1.17***	1.07	1.07
BREAST (FEMALE)	0.97	0.93*	1.06	1.10*
THYROID	0.79	0.94	1.14	0.97
BONES & JOINTS	1.13	1.23	1.26	1.15
BLADDER	1.08	0.93	1.01	1.18**
BRAIN & OTHER C.N.S.	1.28*	0.95	0.96	1.29*

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.2

Age at death: under 10

Point Beach 1,2/Kewaunee (1970)
Kewaunee, WI ; Manitowoc, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	18	0.97	65	1.32	5	0.93	21	1.34
ALL CANCER, EXCL LEUK	29	1.54	50	1.00	10	1.48	26	1.31
HODGKIN'S DISEASE	0	0.00	1	1.27	0	0.00	0	0.00
OTHER LYMPHOMA	4	1.54	6	0.87	2	2.75	1	0.47
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	2	0.78	0	0.00	1	0.98
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	2	1.33	0	0.00	1	1.27
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	1	14.35	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	1.43	0	0.00	0	0.00	3	4.49
BLADDER	1	8.95	1	3.36	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	13	1.70	23	1.13	2	0.82	7	0.98
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	2	0.89

Table 1-C.2

Age at death: under 10

Point Beach 1,2/Kewaunee (1970)
Kewaunee, WI ; Manitowoc, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.73	0.69	0.96	1.02
ALL CANCER, EXCL LEUK	1.54	1.13	0.96	1.31
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	1.77	5.85	1.79	0.54
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	0.00	-	1.26
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.00	0.00	-	0.95
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	0.00	0.00	-
BLADDER	2.66	-	0.00	0.00
BRAIN & OTHER C.N.S.	1.50	0.84	0.48	0.87
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.2

Age at death: 10 to 19

Point Beach 1,2/Kewaunee (1970)
Kewaunee, WI ; Manitowoc, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8	0.99	25	1.14	5	0.99	18	1.25
ALL CANCER, EXCL LEUK	10	0.66	34	0.82	11	1.22	30	1.17
HODGKIN'S DISEASE	1	0.61	0	0.00	0	0.00	4	2.24
OTHER LYMPHOMA	2	0.89	4	0.65	2	1.52	5	1.34
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	3	1.56	1	2.54	1	0.89
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	2	3.14	1	5.85	1	2.04
TRACHEA, BRONCHUS, LUNG	1	5.81	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.35	14	1.82	0	0.00	6	1.26
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	4	1.05	5	0.48	1	0.42	11	1.64
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-C.2

Age at death: 10 to 19

Point Beach 1,2/Kewaunee (1970)
Kewaunee, WI ; Manitowoc, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.87	0.79	1.00	1.10
ALL CANCER, EXCL LEUK	0.80	1.04	1.85	1.43
HODGKIN'S DISEASE	-	0.00	0.00	-
OTHER LYMPHOMA	1.37	1.13	1.71	2.06
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	2.85	-	0.57
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.00	2.87	-	0.65
TRACHEA, BRONCHUS, LUNG	-	-	0.00	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.19	0.00	0.00	0.69
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	2.19	0.26	0.40	3.42*
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.2

Age at death: 20 to 39

Point Beach 1,2/Kewaunee (1970)
Kewaunee, WI ; Manitowoc, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	9	0.89	32	1.13	13	1.85	19	0.89
ALL CANCER, EXCL LEUK	74	0.83	232	0.93	54	1.02	142	0.88
HODGKIN'S DISEASE	8	0.94	22	0.93	2	0.50	11	0.91
OTHER LYMPHOMA	5	0.99	13	0.93	5	1.38	11	1.00
MULTIPLE MYELOMA	0	0.00	1	0.95	0	0.00	0	0.00
DIGESTIVE ORGANS	8	0.53	46	1.09	7	0.94	19	0.84
STOMACH	2	0.64	5	0.58	1	0.84	1	0.28
COLON & RECTUM	6	0.79	27	1.27	4	1.09	11	0.99
LIVER (PRIMARY)	0	0.00	5	1.23	0	0.00	4	1.82
TRACHEA, BRONCHUS, LUNG	1	0.15	8	0.43	3	0.61	9	0.60
BREAST (FEMALE)	9	0.73	38	1.11	10	1.30	21	0.89
THYROID	1	3.28	2	2.36	0	0.00	1	2.39
BONES & JOINTS	2	1.21	5	1.09	4	3.56	3	0.88
BLADDER	1	2.68	1	0.96	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	9	1.11	29	1.29	8	1.49	16	0.98
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	2	0.51

Table 1-C.2

Age at death: 20 to 39

Point Beach 1,2/Kewaunee (1970)
Kewaunee, WI ; Manitowoc, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.79	2.08	2.08	0.79
ALL CANCER, EXCL LEUK	0.89	1.16	1.23	0.95
HODGKIN'S DISEASE	1.01	0.55	0.53	0.98
OTHER LYMPHOMA	1.06	1.38	1.39	1.08
MULTIPLE MYELOMA	0.00	-	-	0.00
DIGESTIVE ORGANS	0.49	1.12	1.77	0.77
STOMACH	1.10	3.00	1.31	0.48
COLON & RECTUM	0.62	1.10	1.38	0.78
LIVER (PRIMARY)	0.00	0.00	-	1.48
TRACHEA, BRONCHUS, LUNG	0.35	1.02	4.07	1.40
BREAST (FEMALE)	0.66	1.46	1.78	0.80
THYROID	1.39	0.00	0.00	1.01
BONES & JOINTS	1.11	4.05	2.94	0.81
BLADDER	2.79	-	0.00	0.00
BRAIN & OTHER C.N.S.	0.86	1.52	1.34	0.76
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.2

Age at death: 40 to 59

Point Beach 1,2/Kewaunee (1970)
Kewaunee, WI ; Manitowoc, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	41	1.46	69	0.89	16	0.99	53	1.12
ALL CANCER, EXCL LEUK	685	0.90	1822	0.86	488	0.94	1323	0.87
HODGKIN'S DISEASE	13	1.17	35	1.14	2	0.50	13	1.11
OTHER LYMPHOMA	20	0.84	60	0.92	25	1.49	47	0.96
MULTIPLE MYELOMA	6	0.74	31	1.39	6	0.97	16	0.89
DIGESTIVE ORGANS	243	1.15	568	0.98	121	1.08	326	1.00
STOMACH	45	1.10	102	0.90	15	1.01	38	0.88
COLON & RECTUM	116	1.26	292	1.14	61	1.17	161	1.07
LIVER (PRIMARY)	21	0.94	55	0.89	8	1.33	23	1.31
TRACHEA, BRONCHUS, LUNG	67	0.46	217	0.54	95	0.62	315	0.70
BREAST (FEMALE)	118	1.12	282	0.96	75	1.03	203	0.97
THYROID	2	0.75	10	1.35	1	0.88	4	1.21
BONES & JOINTS	10	2.12	13	1.00	0	0.00	3	0.63
BLADDER	8	0.65	34	1.01	11	1.85	5	0.29
BRAIN & OTHER C.N.S.	32	1.09	83	1.03	25	1.26	55	0.95
BENIGN & UNSPEC NEOPLASMS	0	0.00	4	2.32	1	0.20	8	0.57

Table 1-C.2

Age at death: 40 to 59

Point Beach 1,2/Kewaunee (1970)
Kewaunee, WI ; Manitowoc, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.64*	0.88	0.68	1.26
ALL CANCER, EXCL LEUK	1.05	1.08	1.04	1.01
HODGKIN'S DISEASE	1.03	0.45	0.43	0.97
OTHER LYMPHOMA	0.91	1.55	1.77	1.04
MULTIPLE MYELOMA	0.53	1.09	1.31	0.64
DIGESTIVE ORGANS	1.17*	1.08	0.94	1.02
STOMACH	1.22	1.15	0.92	0.98
COLON & RECTUM	1.11	1.09	0.93	0.94
LIVER (PRIMARY)	1.06	1.02	1.41	1.47
TRACHEA, BRONCHUS, LUNG	0.85	0.89	1.35	1.30**
BREAST (FEMALE)	1.17	1.06	0.92	1.01
THYROID	0.56	0.73	1.17	0.90
BONES & JOINTS	2.12	0.00	0.00	0.63
BLADDER	0.64	6.38***	2.85*	0.29**
BRAIN & OTHER C.N.S.	1.06	1.33	1.16	0.92
BENIGN & UNSPEC NEOPLASMS	0.00	0.35	-	0.25

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.2

Age at death: 60 plus

Point Beach 1,2/Kewaunee (1970)
Kewaunee, WI ; Manitowoc, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	106	1.27	257	1.00	97	1.15	277	1.14
ALL CANCER, EXCL LEUK	2050	0.95	6243	0.94	2054	0.95	5790	0.94
HODGKIN'S DISEASE	17	1.23	27	0.64	8	0.98	20	0.86
OTHER LYMPHOMA	51	1.00	134	0.87	87	1.30	194	1.01
MULTIPLE MYELOMA	20	0.84	64	0.89	45	1.27	100	0.98
DIGESTIVE ORGANS	990	1.15	2848	1.07	678	1.02	2005	1.04
STOMACH	250	1.29	717	1.19	85	0.95	258	1.00
COLON & RECTUM	439	1.14	1311	1.10	334	0.99	1059	1.09
LIVER (PRIMARY)	93	1.01	299	1.04	39	1.24	103	1.14
TRACHEA, BRONCHUS, LUNG	152	0.48	495	0.53	331	0.64	882	0.60
BREAST (FEMALE)	159	1.02	566	1.18	183	1.16	564	1.23
THYROID	17	1.90	27	0.98	7	1.15	19	1.07
BONES & JOINTS	15	1.19	39	1.00	12	1.96	14	0.80
BLADDER	62	0.75	264	1.03	89	1.25	206	1.01
BRAIN & OTHER C.N.S.	23	1.00	58	0.85	46	1.14	113	0.99
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	0.22	8	0.47	43	0.88

Table 1-C.2

Age at death: 60 plus

Point Beach 1,2/Kewaunee (1970)
Kewaunee, WI ; Manitowoc, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.27*	1.01	0.91	1.14
ALL CANCER, EXCL LEUK	1.01	1.01	1.00	1.00
HODGKIN'S DISEASE	1.92	1.14	0.80	1.34
OTHER LYMPHOMA	1.15	1.29	1.30	1.16
MULTIPLE MYELOMA	0.94	1.30	1.51	1.10
DIGESTIVE ORGANS	1.07	0.98	0.89*	0.97
STOMACH	1.08	0.95	0.74*	0.84*
COLON & RECTUM	1.04	0.91	0.87	0.99
LIVER (PRIMARY)	0.97	1.09	1.23	1.10
TRACHEA, BRONCHUS, LUNG	0.91	1.07	1.33**	1.13*
BREAST (FEMALE)	0.86	0.94	1.14	1.04
THYROID	1.94	1.07	0.61	1.09
BONES & JOINTS	1.19	2.45*	1.65	0.80
BLADDER	0.73*	1.24	1.67**	0.98
BRAIN & OTHER C.N.S.	1.18	1.15	1.14	1.16
BENIGN & UNSPEC NEOPLASMS	0.00	0.53	-	4.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.2

Age at death: all

Point Beach 1,2/Kewaunee (1970)
Kewaunee, WI ; Manitowoc, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	182	1.22	448	1.03	136	1.15	388	1.14
ALL CANCER, EXCL LEUK	2848	0.94	8381	0.92	2617	0.95	7311	0.93
HODGKIN'S DISEASE	39	1.10	85	0.84	12	0.71	48	0.98
OTHER LYMPHOMA	82	0.97	217	0.88	121	1.35	258	1.00
MULTIPLE MYELOMA	26	0.81	96	1.01	51	1.22	116	0.96
DIGESTIVE ORGANS	1241	1.14	3467	1.05	807	1.02	2352	1.04
STOMACH	297	1.25	824	1.13	101	0.96	297	0.98
COLON & RECTUM	561	1.16	1630	1.11	399	1.02	1231	1.08
LIVER (PRIMARY)	114	0.98	363	1.02	48	1.24	132	1.19
TRACHEA, BRONCHUS, LUNG	221	0.47	720	0.53	430	0.63	1206	0.62
BREAST (FEMALE)	286	1.04	886	1.10	268	1.13	788	1.14
THYROID	20	1.67	39	1.08	8	1.08	24	1.12
BONES & JOINTS	29	1.29	71	1.07	16	1.49	29	0.93
BLADDER	72	0.75	300	1.03	100	1.29	211	0.95
BRAIN & OTHER C.N.S.	81	1.13	198	0.98	82	1.17	202	1.00
BENIGN & UNSPEC NEOPLASMS	0	0.00	5	0.70	9	0.37	55	0.78

Table 1-C.2

Age at death: all

Point Beach 1,2/Kewaunee (1970)
Kewaunee, WI ; Manitowoc, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.18	1.01	0.94	1.11
ALL CANCER, EXCL LEUK	1.02	1.02	1.01	1.01
HODGKIN'S DISEASE	1.31	0.72	0.65	1.17
OTHER LYMPHOMA	1.10	1.35**	1.39*	1.14
MULTIPLE MYELOMA	0.80	1.27	1.51	0.95
DIGESTIVE ORGANS	1.09*	0.98	0.89*	0.99
STOMACH	1.11	0.98	0.77*	0.87*
COLON & RECTUM	1.05	0.94	0.88*	0.97
LIVER (PRIMARY)	0.96	1.04	1.27	1.17
TRACHEA, BRONCHUS, LUNG	0.89	1.02	1.34***	1.17***
BREAST (FEMALE)	0.95	0.99	1.09	1.04
THYROID	1.55	0.96	0.65	1.04
BONES & JOINTS	1.21	1.60	1.16	0.87
BLADDER	0.73*	1.36*	1.72***	0.92
BRAIN & OTHER C.N.S.	1.15	1.17	1.04	1.02
BENIGN & UNSPEC NEOPLASMS	0.00	0.47*	-	1.11

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.3

Age at death: under 10

Robinson 2 (1970)
Chesterfield, SC ; Darlington, SC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	17	1.15	21	0.98	6	1.26	7	1.06
ALL CANCER, EXCL LEUK	17	0.94	27	1.03	5	0.73	12	1.26
HODGKIN'S DISEASE	1	2.73	1	1.89	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	5	1.47	0	0.00	1	1.05
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	1.03	1	0.71	0	0.00	1	1.93
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	1	4.98	0	0.00	0	0.00
LIVER (PRIMARY)	1	2.05	0	0.00	0	0.00	1	2.73
TRACHEA, BRONCHUS, LUNG	1	6.68	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	1	4.88	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	5	0.70	10	0.97	2	0.82	4	1.18
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	2	2.35	1	0.85

Table 1-C.3

Age at death: under 10

Robinson 2 (1970)
Chesterfield, SC ; Darlington, SC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.17	1.19	1.10	1.08
ALL CANCER, EXCL LEUK	0.91	0.58	0.78	1.22
HODGKIN'S DISEASE	1.44	-	0.00	0.00
OTHER LYMPHOMA	0.00	0.00	-	0.71
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.45	0.00	0.00	2.72
STOMACH	-	-	-	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	-	0.00	0.00	-
TRACHEA, BRONCHUS, LUNG	-	-	0.00	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	-	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.72	0.69	1.17	1.22
BENIGN & UNSPEC NEOPLASMS	-	2.76	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.3

Age at death: 10 to 19

Robinson 2 (1970)
Chesterfield, SC ; Darlington, SC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8	0.98	8	0.66	6	1.33	3	0.45
ALL CANCER, EXCL LEUK	13	0.76	26	1.02	6	0.69	13	1.00
HODGKIN'S DISEASE	1	0.57	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	3	1.28	6	1.72	1	0.84	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	0.88	3	1.78	0	0.00	2	2.50
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	2.04	2	2.75	0	0.00	1	3.09
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	1	3.24
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	1	18.53	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	2	0.65	6	1.32	2	1.32	2	0.88
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	1	0.25	7	1.19	3	1.35	6	1.83
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	1	1.58	1	1.06

Table 1-C.3

Age at death: 10 to 19

Robinson 2 (1970)
Chesterfield, SC ; Darlington, SC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.48	2.96	1.36	0.68
ALL CANCER, EXCL LEUK	0.75	0.69	0.91	0.98
HODGKIN'S DISEASE	-	-	0.00	-
OTHER LYMPHOMA	0.74	-	0.66	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.49	0.00	0.00	1.40
STOMACH	-	-	-	-
COLON & RECTUM	0.74	0.00	0.00	1.12
LIVER (PRIMARY)	-	0.00	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	0.00	-
THYROID	-	-	-	-
BONES & JOINTS	0.49	1.50	2.03	0.67
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.21	0.74	5.40	1.54
BENIGN & UNSPEC NEOPLASMS	-	1.49	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.3

Age at death: 20 to 39

Robinson 2 (1970)
Chesterfield, SC ; Darlington, SC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	9	0.92	8	0.55	8	1.10	13	1.23
ALL CANCER, EXCL LEUK	100	1.02	150	1.03	67	1.14	75	0.89
HODGKIN'S DISEASE	4	0.55	11	1.02	4	1.10	6	1.13
OTHER LYMPHOMA	6	1.23	10	1.38	2	0.55	7	1.31
MULTIPLE MYELOMA	0	0.00	1	1.35	0	0.00	1	2.21
DIGESTIVE ORGANS	17	0.94	18	0.67	9	0.92	12	0.85
STOMACH	6	1.41	8	1.26	1	0.55	3	1.14
COLON & RECTUM	3	0.37	6	0.50	5	1.12	2	0.31
LIVER (PRIMARY)	1	0.46	1	0.31	2	1.66	3	1.70
TRACHEA, BRONCHUS, LUNG	9	1.24	12	1.12	7	1.20	5	0.60
BREAST (FEMALE)	11	0.81	20	0.99	12	1.28	13	0.99
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.59	3	1.17	0	0.00	0	0.00
BLADDER	1	1.78	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	5	0.72	8	0.77	6	1.20	7	0.96
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	4.05	2	1.25	0	0.00

Table 1-C.3

Age at death: 20 to 39

Robinson 2 (1970)
Chesterfield, SC ; Darlington, SC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.67	0.89	1.20	2.24
ALL CANCER, EXCL LEUK	0.99	1.28	1.12	0.86
HODGKIN'S DISEASE	0.54	0.97	2.00	1.11
OTHER LYMPHOMA	0.89	0.42	0.45	0.95
MULTIPLE MYELOMA	0.00	0.00	-	1.64
DIGESTIVE ORGANS	1.40	1.08	0.98	1.27
STOMACH	1.12	0.48	0.39	0.90
COLON & RECTUM	0.74	3.61	3.03	0.62
LIVER (PRIMARY)	1.48	0.98	3.61	5.48
TRACHEA, BRONCHUS, LUNG	1.11	2.00	0.97	0.54
BREAST (FEMALE)	0.82	1.29	1.58	1.00
THYROID	-	-	-	-
BONES & JOINTS	0.50	-	0.00	0.00
BLADDER	-	-	0.00	-
BRAIN & OTHER C.N.S.	0.94	1.25	1.67	1.25
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.3

Age at death: 40 to 59

Robinson 2 (1970)
Chesterfield, SC ; Darlington, SC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	29	1.42	41	1.23	21	1.40	21	0.89
ALL CANCER, EXCL LEUK	593	0.92	1004	0.95	492	0.91	773	0.93
HODGKIN'S DISEASE	7	0.89	11	0.86	4	1.15	4	0.73
OTHER LYMPHOMA	14	0.86	28	1.05	10	0.70	20	0.89
MULTIPLE MYELOMA	12	1.50	14	1.07	8	1.02	12	1.00
DIGESTIVE ORGANS	153	0.82	251	0.82	107	0.85	204	1.05
STOMACH	43	1.02	62	0.89	11	0.60	21	0.75
COLON & RECTUM	45	0.65	78	0.69	51	1.03	83	1.07
LIVER (PRIMARY)	23	1.09	28	0.81	10	1.25	16	1.30
TRACHEA, BRONCHUS, LUNG	100	0.89	191	1.04	146	0.93	225	0.92
BREAST (FEMALE)	68	0.81	119	0.88	68	0.97	78	0.73
THYROID	2	0.91	4	1.11	2	1.81	3	1.75
BONES & JOINTS	7	1.81	9	1.42	0	0.00	3	1.14
BLADDER	8	0.74	19	1.06	3	0.52	8	0.88
BRAIN & OTHER C.N.S.	11	0.60	34	1.13	16	0.99	35	1.37
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	1.03	3	0.57	7	0.86

Table 1-C.3

Age at death: 40 to 59

Robinson 2 (1970)
Chesterfield, SC ; Darlington, SC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.15	1.57	0.99	0.72
ALL CANCER, EXCL LEUK	0.97	0.98	0.99	0.98
HODGKIN'S DISEASE	1.03	1.58	1.29	0.85
OTHER LYMPHOMA	0.82	0.79	0.81	0.85
MULTIPLE MYELOMA	1.40	1.02	0.68	0.93
DIGESTIVE ORGANS	1.00	0.81	1.04	1.28*
STOMACH	1.15	0.80	0.59	0.84
COLON & RECTUM	0.94	0.96	1.58*	1.55**
LIVER (PRIMARY)	1.35	0.96	1.15	1.60
TRACHEA, BRONCHUS, LUNG	0.86	1.01	1.04	0.88
BREAST (FEMALE)	0.92	1.33	1.20	0.83
THYROID	0.82	1.03	1.99	1.58
BONES & JOINTS	1.27	0.00	0.00	0.80
BLADDER	0.70	0.59	0.70	0.83
BRAIN & OTHER C.N.S.	0.53	0.72	1.65	1.21
BENIGN & UNSPEC NEOPLASMS	0.00	0.66	-	0.83

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.3

Age at death: 60 plus

Robinson 2 (1970)
Chesterfield, SC ; Darlington, SC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	30	0.76	82	1.09	30	0.62	83	0.97
ALL CANCER, EXCL LEUK	907	0.76	1783	0.79	1326	0.91	2210	0.88
HODGKIN'S DISEASE	5	0.75	11	0.88	1	0.21	4	0.48
OTHER LYMPHOMA	26	1.06	34	0.74	39	1.02	60	0.90
MULTIPLE MYELOMA	17	1.15	18	0.66	21	0.73	46	0.93
DIGESTIVE ORGANS	321	0.68	592	0.66	356	0.78	650	0.83
STOMACH	75	0.64	145	0.64	60	0.88	88	0.74
COLON & RECTUM	126	0.65	223	0.61	150	0.71	289	0.79
LIVER (PRIMARY)	30	0.59	61	0.63	16	0.65	29	0.69
TRACHEA, BRONCHUS, LUNG	111	0.68	255	0.85	325	0.95	554	0.93
BREAST (FEMALE)	52	0.59	143	0.87	107	0.95	144	0.77
THYROID	2	0.41	9	0.98	2	0.50	4	0.58
BONES & JOINTS	10	1.50	12	0.95	7	1.83	8	1.20
BLADDER	25	0.62	57	0.73	35	0.87	53	0.74
BRAIN & OTHER C.N.S.	9	0.82	21	1.07	19	0.76	41	0.96
BENIGN & UNSPEC NEOPLASMS	1	1.07	1	0.59	3	0.25	15	0.74

Table 1-C.3

Age at death: 60 plus

Robinson 2 (1970)
Chesterfield, SC ; Darlington, SC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.70	0.64*	0.82	0.89
ALL CANCER, EXCL LEUK	0.96	1.03	1.20***	1.11**
HODGKIN'S DISEASE	0.85	0.44	0.28	0.55
OTHER LYMPHOMA	1.43	1.13	0.96	1.22
MULTIPLE MYELOMA	1.74	0.78	0.63	1.41
DIGESTIVE ORGANS	1.03	0.94	1.15	1.26***
STOMACH	1.00	1.19	1.38	1.16
COLON & RECTUM	1.07	0.90	1.09	1.30**
LIVER (PRIMARY)	0.94	0.94	1.10	1.10
TRACHEA, BRONCHUS, LUNG	0.80	1.02	1.40**	1.09
BREAST (FEMALE)	0.68*	1.23	1.61**	0.89
THYROID	0.42	0.86	1.22	0.59
BONES & JOINTS	1.58	1.53	1.22	1.26
BLADDER	0.85	1.18	1.40	1.01
BRAIN & OTHER C.N.S.	0.77	0.79	0.93	0.90
BENIGN & UNSPEC NEOPLASMS	1.81	0.34	0.23	1.25

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.3

Age at death: all

Robinson 2 (1970)
Chesterfield, SC ; Darlington, SC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	93	1.00	160	1.02	71	0.89	127	0.96
ALL CANCER, EXCL LEUK	1630	0.83	2990	0.86	1896	0.92	3083	0.89
HODGKIN'S DISEASE	18	0.75	34	0.87	9	0.72	14	0.70
OTHER LYMPHOMA	49	0.97	83	0.96	52	0.89	88	0.90
MULTIPLE MYELOMA	29	1.24	33	0.80	29	0.78	59	0.95
DIGESTIVE ORGANS	493	0.73	865	0.70	472	0.80	869	0.87
STOMACH	124	0.75	215	0.71	72	0.81	112	0.75
COLON & RECTUM	175	0.65	310	0.63	206	0.78	375	0.83
LIVER (PRIMARY)	55	0.73	90	0.66	28	0.82	50	0.88
TRACHEA, BRONCHUS, LUNG	221	0.78	458	0.92	478	0.94	784	0.92
BREAST (FEMALE)	132	0.71	282	0.88	187	0.97	235	0.76
THYROID	4	0.53	13	0.97	4	0.75	7	0.79
BONES & JOINTS	20	1.26	30	1.11	10	1.20	13	0.96
BLADDER	34	0.65	76	0.79	38	0.82	61	0.75
BRAIN & OTHER C.N.S.	31	0.65	80	1.05	46	0.91	93	1.13
BENIGN & UNSPEC NEOPLASMS	1	0.53	3	0.94	11	0.55	24	0.73

Table 1-C.3

Age at death: all

Robinson 2 (1970)
Chesterfield, SC ; Darlington, SC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.98	0.93	0.89	0.94
ALL CANCER, EXCL LEUK	0.97	1.03	1.11**	1.03
HODGKIN'S DISEASE	0.86	1.03	0.96	0.80
OTHER LYMPHOMA	1.01	0.99	0.92	0.94
MULTIPLE MYELOMA	1.55	0.82	0.63	1.19
DIGESTIVE ORGANS	1.04	0.92	1.10	1.24***
STOMACH	1.06	1.08	1.08	1.06
COLON & RECTUM	1.03	0.94	1.20	1.32***
LIVER (PRIMARY)	1.11	0.93	1.12	1.33
TRACHEA, BRONCHUS, LUNG	0.85*	1.02	1.21*	1.00
BREAST (FEMALE)	0.81*	1.28*	1.37**	0.86
THYROID	0.55	0.95	1.42	0.81
BONES & JOINTS	1.14	1.25	0.95	0.86
BLADDER	0.82	1.09	1.26	0.95
BRAIN & OTHER C.N.S.	0.62*	0.81	1.40	1.08
BENIGN & UNSPEC NEOPLASMS	0.56	0.75	1.04	0.78

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.4

Age at death: under 10

Monticello (1971)
Sherburne, MN ; Wright, MN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	9	0.93	12	0.89	2	0.46	2	0.43
ALL CANCER, EXCL LEUK	13	1.32	10	0.73	6	1.04	9	1.49
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	2	1.48	3	1.58	1	1.69	1	1.58
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	1	3.28	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	1	4.22	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	2.74	1	1.94	1	5.27	1	5.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	6	1.51	4	0.72	2	0.97	5	2.31
BENIGN & UNSPEC NEOPLASMS	1	7.38	0	0.00	0	0.00	1	1.56

Table 1-C.4

Age at death: under 10

Monticello (1971)
Sherburne, MN ; Wright, MN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.04	1.07	0.49	0.48
ALL CANCER, EXCL LEUK	1.81	0.70	0.79	2.04
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	0.94	1.07	1.14	1.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.41	1.05	1.92	2.58
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	2.10	0.42	0.64	3.21
BENIGN & UNSPEC NEOPLASMS	-	0.00	0.00	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.4

Age at death: 10 to 19

Monticello (1971)
Sherburne, MN ; Wright, MN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3	0.68	9	1.35	2	0.53	5	1.13
ALL CANCER, EXCL LEUK	8	0.96	15	1.18	6	0.91	6	0.76
HODGKIN'S DISEASE	1	1.15	2	1.47	2	4.54	0	0.00
OTHER LYMPHOMA	2	1.61	3	1.60	1	1.03	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	2	3.38	0	0.00	0	0.00
STOMACH	0	0.00	1	24.17	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	2	0.84	2	1.65	1	0.69
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	4	1.92	1	0.32	0	0.00	1	0.49
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-C.4

Age at death: 10 to 19

Monticello (1971)
Sherburne, MN ; Wright, MN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.50	0.47	0.78	0.84
ALL CANCER, EXCL LEUK	0.81	1.20	0.95	0.64
HODGKIN'S DISEASE	0.78	-	3.95	0.00
OTHER LYMPHOMA	1.01	-	0.64	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	0.00	-	-	0.00
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	2.39	-	0.82
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	6.00	0.00	0.00	1.53
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.4

Age at death: 20 to 39

Monticello (1971)
Sherburne, MN ; Wright, MN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4	0.77	11	1.39	6	1.00	4	0.60
ALL CANCER, EXCL LEUK	38	0.88	49	0.71	45	0.98	39	0.77
HODGKIN'S DISEASE	8	1.84	4	0.61	2	0.61	4	1.09
OTHER LYMPHOMA	2	0.77	1	0.25	4	1.28	3	0.86
MULTIPLE MYELOMA	0	0.00	2	7.00	0	0.00	0	0.00
DIGESTIVE ORGANS	8	1.12	9	0.78	5	0.77	3	0.42
STOMACH	0	0.00	1	0.43	2	1.94	0	0.00
COLON & RECTUM	6	1.67	5	0.87	1	0.31	2	0.57
LIVER (PRIMARY)	1	1.44	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	2	0.61	3	0.58	4	0.92	2	0.41
BREAST (FEMALE)	3	0.53	3	0.32	6	0.87	6	0.79
THYROID	0	0.00	0	0.00	1	8.50	0	0.00
BONES & JOINTS	2	2.27	2	1.53	1	1.07	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	3	0.75	11	1.76	5	1.08	2	0.39
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	4.03	0	0.00	0	0.00

Table 1-C.4

Age at death: 20 to 39

Monticello (1971)
Sherburne, MN ; Wright, MN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.55	1.67	1.30	0.43
ALL CANCER, EXCL LEUK	1.24	1.27	1.11	1.08
HODGKIN'S DISEASE	3.02	0.56	0.33	1.79
OTHER LYMPHOMA	3.08	1.49	1.66	3.44
MULTIPLE MYELOMA	0.00	-	-	0.00
DIGESTIVE ORGANS	1.44	1.83	0.69	0.54
STOMACH	0.00	-	-	0.00
COLON & RECTUM	1.92	0.54	0.19	0.66
LIVER (PRIMARY)	-	-	0.00	-
TRACHEA, BRONCHUS, LUNG	1.05	2.24	1.51	0.71
BREAST (FEMALE)	1.66	1.10	1.64	2.47
THYROID	-	-	-	-
BONES & JOINTS	1.48	-	0.47	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.43	2.77	1.44	0.22
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.4

Age at death: 40 to 59

Monticello (1971)
Sherburne, MN ; Wright, MN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	16	1.24	28	1.26	12	1.26	7	0.57
ALL CANCER, EXCL LEUK	259	0.73	471	0.77	242	0.82	366	0.94
HODGKIN'S DISEASE	4	0.78	5	0.57	2	0.88	2	0.68
OTHER LYMPHOMA	10	0.90	22	1.16	10	1.03	10	0.79
MULTIPLE MYELOMA	4	1.06	7	1.07	5	1.43	6	1.30
DIGESTIVE ORGANS	65	0.67	163	0.96	66	1.05	100	1.20
STOMACH	14	0.75	32	0.97	13	1.57	8	0.73
COLON & RECTUM	30	0.70	82	1.11	25	0.87	60	1.57
LIVER (PRIMARY)	9	0.90	15	0.85	4	1.17	4	0.89
TRACHEA, BRONCHUS, LUNG	26	0.37	53	0.44	68	0.77	91	0.78
BREAST (FEMALE)	53	1.11	74	0.90	34	0.85	53	0.99
THYROID	0	0.00	4	1.89	0	0.00	0	0.00
BONES & JOINTS	1	0.46	1	0.27	0	0.00	0	0.00
BLADDER	2	0.35	4	0.40	1	0.31	2	0.46
BRAIN & OTHER C.N.S.	12	0.88	16	0.68	8	0.70	11	0.74
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	1.12	2	0.80	0	0.00

Table 1-C.4

Age at death: 40 to 59

Monticello (1971)
Sherburne, MN ; Wright, MN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.98	2.21	1.02	0.45
ALL CANCER, EXCL LEUK	0.95	0.87	1.12	1.22**
HODGKIN'S DISEASE	1.37	1.29	1.13	1.19
OTHER LYMPHOMA	0.78	1.30	1.14	0.68
MULTIPLE MYELOMA	0.99	1.10	1.35	1.21
DIGESTIVE ORGANS	0.70*	0.88	1.57*	1.25
STOMACH	0.77	2.15	2.09	0.75
COLON & RECTUM	0.63*	0.55*	1.24	1.41
LIVER (PRIMARY)	1.06	1.31	1.30	1.05
TRACHEA, BRONCHUS, LUNG	0.84	0.99	2.08**	1.77**
BREAST (FEMALE)	1.23	0.86	0.77	1.10
THYROID	0.00	-	-	0.00
BONES & JOINTS	1.70	-	0.00	0.00
BLADDER	0.88	0.67	0.89	1.15
BRAIN & OTHER C.N.S.	1.29	0.95	0.80	1.09
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.4

Age at death: 60 plus

Monticello (1971)
Sherburne, MN ; Wright, MN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	59	1.21	95	1.15	50	1.04	75	1.09
ALL CANCER, EXCL LEUK	1124	0.91	1771	0.84	1072	0.88	1549	0.89
HODGKIN'S DISEASE	6	0.78	16	1.22	9	2.05	9	1.43
OTHER LYMPHOMA	30	1.03	56	1.13	44	1.16	67	1.24
MULTIPLE MYELOMA	25	1.82	28	1.21	33	1.64	40	1.39
DIGESTIVE ORGANS	460	0.94	805	0.95	346	0.92	480	0.89
STOMACH	115	1.05	238	1.24	54	1.08	74	1.03
COLON & RECTUM	200	0.92	322	0.86	181	0.95	246	0.90
LIVER (PRIMARY)	56	1.12	86	0.99	10	0.56	14	0.55
TRACHEA, BRONCHUS, LUNG	99	0.53	152	0.49	184	0.62	295	0.70
BREAST (FEMALE)	82	1.01	143	1.01	76	0.90	132	1.09
THYROID	7	1.45	4	0.48	5	1.50	3	0.62
BONES & JOINTS	3	0.42	4	0.32	2	0.60	9	1.87
BLADDER	46	0.93	58	0.69	40	0.97	48	0.81
BRAIN & OTHER C.N.S.	13	0.99	19	0.86	22	0.98	39	1.23
BENIGN & UNSPEC NEOPLASMS	1	0.58	1	0.38	9	0.99	8	0.60

Table 1-C.4

Age at death: 60 plus

Monticello (1971)
Sherburne, MN ; Wright, MN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.05	0.95	0.86	0.95
ALL CANCER, EXCL LEUK	1.08*	0.99	0.97	1.06
HODGKIN'S DISEASE	0.64	1.43	2.63	1.17
OTHER LYMPHOMA	0.91	0.94	1.13	1.10
MULTIPLE MYELOMA	1.50	1.18	0.90	1.15
DIGESTIVE ORGANS	0.99	1.03	0.98	0.94
STOMACH	0.85	1.05	1.03	0.83
COLON & RECTUM	1.07	1.06	1.03	1.05
LIVER (PRIMARY)	1.13	1.02	0.50*	0.56*
TRACHEA, BRONCHUS, LUNG	1.08	0.89	1.17	1.43***
BREAST (FEMALE)	1.00	0.83	0.89	1.08
THYROID	3.02	2.42	1.03	1.29
BONES & JOINTS	1.31	0.32	1.43	5.84**
BLADDER	1.35	1.20	1.04	1.17
BRAIN & OTHER C.N.S.	1.15	0.80	0.99	1.43
BENIGN & UNSPEC NEOPLASMS	1.53	1.65	1.71	1.58

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.4

Age at death: all

Monticello (1971)
Sherburne, MN ; Wright, MN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	91	1.13	155	1.17	72	1.01	93	0.96
ALL CANCER, EXCL LEUK	1442	0.87	2316	0.82	1371	0.87	1969	0.90
HODGKIN'S DISEASE	19	1.05	27	0.90	15	1.44	15	1.11
OTHER LYMPHOMA	46	1.01	85	1.12	60	1.15	81	1.13
MULTIPLE MYELOMA	29	1.64	37	1.24	38	1.60	46	1.37
DIGESTIVE ORGANS	533	0.89	979	0.95	418	0.94	583	0.93
STOMACH	129	0.99	272	1.20	69	1.16	82	0.97
COLON & RECTUM	236	0.89	409	0.90	207	0.93	308	0.98
LIVER (PRIMARY)	66	1.08	101	0.95	15	0.68	18	0.58
TRACHEA, BRONCHUS, LUNG	127	0.48	208	0.47	256	0.65	388	0.72
BREAST (FEMALE)	138	1.03	220	0.94	116	0.88	191	1.05
THYROID	7	1.12	8	0.74	6	1.46	3	0.52
BONES & JOINTS	7	0.58	10	0.49	6	0.92	11	1.26
BLADDER	48	0.87	62	0.66	41	0.92	50	0.78
BRAIN & OTHER C.N.S.	38	1.03	51	0.84	37	0.88	58	1.04
BENIGN & UNSPEC NEOPLASMS	2	0.73	3	0.73	11	0.81	9	0.48

Table 1-C.4

Age at death: all

Monticello (1971)
Sherburne, MN ; Wright, MN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.97	1.05	0.89	0.82
ALL CANCER, EXCL LEUK	1.06	0.97	1.00	1.10**
HODGKIN'S DISEASE	1.17	1.30	1.37	1.23
OTHER LYMPHOMA	0.90	1.02	1.14	1.01
MULTIPLE MYELOMA	1.32	1.17	0.98	1.10
DIGESTIVE ORGANS	0.94	1.01	1.06	0.98
STOMACH	0.83	1.20	1.17	0.81
COLON & RECTUM	0.99	0.95	1.04	1.09
LIVER (PRIMARY)	1.14	1.17	0.63	0.61
TRACHEA, BRONCHUS, LUNG	1.02	0.90	1.35**	1.53***
BREAST (FEMALE)	1.10	0.84	0.85	1.12
THYROID	1.51	2.81	1.30	0.70
BONES & JOINTS	1.18	0.73	1.59	2.57
BLADDER	1.32	1.18	1.06	1.18
BRAIN & OTHER C.N.S.	1.23	0.85	0.85	1.24
BENIGN & UNSPEC NEOPLASMS	1.00	1.69	1.11	0.66

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.5

Age at death: under 10

Palisades (1971)
Van Buren, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8	0.88	25	1.23	0	0.00	5	0.78
ALL CANCER, EXCL LEUK	8	0.85	21	1.01	1	0.24	7	0.83
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	2	1.55	1	0.35	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	1	1.30	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	1	0.26	10	1.19	0	0.00	3	0.99
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-C.5

Age at death: under 10

Palisades (1971)
Van Buren, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.72	0.00	0.00	0.63
ALL CANCER, EXCL LEUK	0.84	0.29	0.28	0.82
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	4.43	-	0.00	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	-	-	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.22	0.00	0.00	0.83
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.5

Age at death: 10 to 19

Palisades (1971)
Van Buren, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4	0.91	13	1.38	5	1.77	2	0.34
ALL CANCER, EXCL LEUK	12	1.44	24	1.36	2	0.39	10	0.96
HODGKIN'S DISEASE	2	2.30	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	4	3.24	5	1.91	0	0.00	2	1.32
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	2	4.93	0	0.00	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.65	2	0.61	2	2.16	2	1.05
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	2	0.96	9	2.03	2	1.50	3	1.10
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	3	9.36	0	0.00

Table 1-C.5

Age at death: 10 to 19

Palisades (1971)
Van Buren, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.66	5.21	1.95	0.25
ALL CANCER, EXCL LEUK	1.06	0.41	0.27	0.71
HODGKIN'S DISEASE	-	-	0.00	-
OTHER LYMPHOMA	1.70	0.00	0.00	0.69
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	0.00	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.07	2.06	3.32	1.72
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.47	1.36	1.56	0.54
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.5

Age at death: 20 to 39

Palisades (1971)
Van Buren, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	6	1.13	15	1.29	4	0.92	15	1.71
ALL CANCER, EXCL LEUK	48	1.00	103	1.01	44	1.30	80	1.18
HODGKIN'S DISEASE	3	0.69	16	1.66	5	2.11	5	1.04
OTHER LYMPHOMA	3	1.13	7	1.21	0	0.00	10	2.21
MULTIPLE MYELOMA	1	4.82	1	2.35	0	0.00	1	3.65
DIGESTIVE ORGANS	7	0.86	12	0.70	10	2.04	10	1.05
STOMACH	0	0.00	4	1.15	4	4.96	0	0.00
COLON & RECTUM	2	0.50	7	0.82	4	1.67	8	1.70
LIVER (PRIMARY)	2	2.46	1	0.61	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	4	1.09	7	0.91	3	0.93	6	0.94
BREAST (FEMALE)	9	1.35	9	0.64	7	1.34	10	0.96
THYROID	0	0.00	0	0.00	0	0.00	1	5.77
BONES & JOINTS	0	0.00	1	0.54	1	1.51	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	1	4.68
BRAIN & OTHER C.N.S.	5	1.20	8	0.87	4	1.21	6	0.89
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	1	0.65

Table 1-C.5

Age at death: 20 to 39

Palisades (1971)
Van Buren, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.88	0.54	0.81	1.33
ALL CANCER, EXCL LEUK	0.99	1.10	1.30	1.17
HODGKIN'S DISEASE	0.42	2.03	3.06	0.63
OTHER LYMPHOMA	0.93	0.00*	0.00	1.83
MULTIPLE MYELOMA	2.05	0.00	0.00	1.55
DIGESTIVE ORGANS	1.23	1.94	2.37	1.50
STOMACH	0.00	-	-	0.00
COLON & RECTUM	0.61	0.98	3.34	2.07
LIVER (PRIMARY)	4.03	-	0.00	0.00
TRACHEA, BRONCHUS, LUNG	1.20	0.99	0.85	1.03
BREAST (FEMALE)	2.11	1.40	0.99	1.50
THYROID	-	0.00	-	-
BONES & JOINTS	0.00	-	-	0.00
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	1.38	1.36	1.01	1.02
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.5

Age at death: 40 to 59

Palisades (1971)
Van Buren, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	11	0.76	34	1.11	9	0.98	13	0.65
ALL CANCER, EXCL LEUK	371	0.90	806	0.95	289	0.96	608	0.95
HODGKIN'S DISEASE	7	1.24	4	0.33	4	1.86	4	0.86
OTHER LYMPHOMA	16	1.31	33	1.26	8	0.87	27	1.32
MULTIPLE MYELOMA	5	1.09	17	1.86	3	0.79	11	1.43
DIGESTIVE ORGANS	96	0.84	233	1.00	65	0.99	121	0.88
STOMACH	12	0.52	37	0.83	9	1.01	11	0.61
COLON & RECTUM	52	1.08	104	1.02	27	0.93	63	1.00
LIVER (PRIMARY)	9	0.74	36	1.49	3	0.80	5	0.67
TRACHEA, BRONCHUS, LUNG	76	0.96	137	0.84	84	0.94	170	0.89
BREAST (FEMALE)	47	0.84	113	0.94	37	0.91	71	0.80
THYROID	0	0.00	2	0.69	0	0.00	2	1.45
BONES & JOINTS	2	0.81	7	1.37	3	3.28	1	0.52
BLADDER	6	0.90	16	1.19	3	0.91	7	0.98
BRAIN & OTHER C.N.S.	17	1.15	26	0.81	9	0.84	31	1.30
BENIGN & UNSPEC NEOPLASMS	0	0.00	2	1.41	0	0.00	0	0.00

Table 1-C.5

Age at death: 40 to 59

Palisades (1971)
Van Buren, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.68	1.51	1.29	0.59
ALL CANCER, EXCL LEUK	0.95	1.01	1.07	1.00
HODGKIN'S DISEASE	3.76	2.16	1.50	2.61
OTHER LYMPHOMA	1.04	0.66	0.66	1.05
MULTIPLE MYELOMA	0.59	0.55	0.72	0.77
DIGESTIVE ORGANS	0.84	1.13	1.18	0.88
STOMACH	0.63	1.66	1.94	0.73
COLON & RECTUM	1.06	0.93	0.86	0.98
LIVER (PRIMARY)	0.50	1.19	1.08	0.45
TRACHEA, BRONCHUS, LUNG	1.14	1.06	0.98	1.06
BREAST (FEMALE)	0.89	1.14	1.08	0.85
THYROID	0.00	0.00	-	2.10
BONES & JOINTS	0.59	6.31	4.05	0.38
BLADDER	0.76	0.93	1.01	0.82
BRAIN & OTHER C.N.S.	1.42	0.65	0.73	1.60
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.5

Age at death: 60 plus

Palisades (1971)
Van Buren, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	59	1.12	98	0.92	41	0.94	97	1.05
ALL CANCER, EXCL LEUK	1344	0.97	2810	1.02	1098	0.94	2375	0.98
HODGKIN'S DISEASE	9	1.08	21	1.23	4	0.99	10	1.14
OTHER LYMPHOMA	24	0.76	82	1.28	35	1.02	68	0.91
MULTIPLE MYELOMA	21	1.35	20	0.66	18	0.87	44	1.08
DIGESTIVE ORGANS	540	0.97	1077	0.98	317	0.88	749	1.01
STOMACH	132	1.02	237	0.95	53	1.04	98	0.99
COLON & RECTUM	246	1.01	479	0.98	160	0.90	371	1.00
LIVER (PRIMARY)	57	0.98	149	1.30	13	0.73	41	1.15
TRACHEA, BRONCHUS, LUNG	190	0.96	360	0.90	279	1.00	550	0.92
BREAST (FEMALE)	82	0.85	206	1.07	82	0.98	165	0.93
THYROID	3	0.53	12	1.08	2	0.62	7	1.05
BONES & JOINTS	6	0.74	13	0.81	0	0.00	11	1.68
BLADDER	78	1.45	128	1.20	35	0.94	88	1.14
BRAIN & OTHER C.N.S.	18	1.32	25	0.88	17	0.82	32	0.70
BENIGN & UNSPEC NEOPLASMS	2	1.12	1	0.28	4	0.45	12	0.66

Table 1-C.5

Age at death: 60 plus

Palisades (1971)
Van Buren, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.22	0.90	0.84	1.14
ALL CANCER, EXCL LEUK	0.95	0.96	0.97	0.96
HODGKIN'S DISEASE	0.88	0.87	0.92	0.93
OTHER LYMPHOMA	0.59*	1.12	1.34	0.71*
MULTIPLE MYELOMA	2.05*	0.81	0.64	1.64
DIGESTIVE ORGANS	0.99	0.87*	0.91	1.03
STOMACH	1.07	1.05	1.02	1.04
COLON & RECTUM	1.03	0.90	0.89	1.02
LIVER (PRIMARY)	0.75	0.63	0.74	0.88
TRACHEA, BRONCHUS, LUNG	1.07	1.09	1.04	1.02
BREAST (FEMALE)	0.79	1.05	1.15	0.87
THYROID	0.49	0.59	1.17	0.97
BONES & JOINTS	0.91	0.00*	0.00	2.07
BLADDER	1.21	0.82	0.65*	0.95
BRAIN & OTHER C.N.S.	1.50	1.17	0.62	0.80
BENIGN & UNSPEC NEOPLASMS	4.00	0.68	0.40	2.36

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.5

Age at death: all

Palisades (1971)
Van Buren, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	88	1.02	185	1.04	59	0.93	132	0.99
ALL CANCER, EXCL LEUK	1783	0.95	3764	1.01	1434	0.95	3080	0.98
HODGKIN'S DISEASE	21	1.08	41	1.00	13	1.46	19	1.00
OTHER LYMPHOMA	49	1.00	128	1.26	43	0.92	107	1.05
MULTIPLE MYELOMA	27	1.32	38	0.95	21	0.85	56	1.15
DIGESTIVE ORGANS	645	0.94	1322	0.98	392	0.90	880	0.99
STOMACH	144	0.93	278	0.94	66	1.09	109	0.92
COLON & RECTUM	300	1.01	590	0.99	191	0.91	442	1.01
LIVER (PRIMARY)	68	0.95	186	1.32	16	0.72	46	1.03
TRACHEA, BRONCHUS, LUNG	270	0.96	504	0.88	366	0.99	726	0.91
BREAST (FEMALE)	138	0.87	328	1.00	126	0.97	246	0.89
THYROID	3	0.42	14	0.97	2	0.51	10	1.21
BONES & JOINTS	9	0.68	24	0.89	6	1.04	14	1.17
BLADDER	84	1.38	144	1.19	38	0.93	96	1.13
BRAIN & OTHER C.N.S.	43	1.12	78	0.94	32	0.85	75	0.91
BENIGN & UNSPEC NEOPLASMS	2	0.70	3	0.53	7	0.53	13	0.49

Table 1-C.5

Age at death: all

Palisades (1971)
Van Buren, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.98	0.94	0.91	0.95
ALL CANCER, EXCL LEUK	0.94	0.97	1.00	0.97
HODGKIN'S DISEASE	1.08	1.46	1.35	1.00
OTHER LYMPHOMA	0.79	0.88	0.92	0.83
MULTIPLE MYELOMA	1.39	0.74	0.64	1.21
DIGESTIVE ORGANS	0.96	0.91	0.96	1.01
STOMACH	0.99	1.18	1.17	0.98
COLON & RECTUM	1.02	0.90	0.90	1.02
LIVER (PRIMARY)	0.72*	0.70	0.76	0.78
TRACHEA, BRONCHUS, LUNG	1.09	1.09	1.03	1.03
BREAST (FEMALE)	0.87	1.09	1.11	0.89
THYROID	0.43	0.42	1.21	1.25
BONES & JOINTS	0.76	0.89	1.53	1.31
BLADDER	1.16	0.82	0.67	0.95
BRAIN & OTHER C.N.S.	1.19	0.93	0.76	0.97
BENIGN & UNSPEC NEOPLASMS	1.32	1.08	0.76	0.92

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.6

Age at death: under 10

Maine Yankee (1972)
Lincoln, ME ; Sagadahoc, ME

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	10	1.27	66	0.92	4	1.89	15	0.90
ALL CANCER, EXCL LEUK	6	0.75	58	0.80	2	0.71	14	0.63
HODGKIN'S DISEASE	1	7.82	1	0.88	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	5	0.50	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	2.43	1	0.27	0	0.00	1	0.88
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	1	0.45	0	0.00	1	1.13
TRACHEA, BRONCHUS, LUNG	0	0.00	1	1.66	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	2	0.75	0	0.00	0	0.00
BLADDER	1	21.34	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	3	0.93	28	0.96	0	0.00	10	1.26
BENIGN & UNSPEC NEOPLASMS	1	7.68	2	1.74	0	0.00	5	2.19

Table 1-C.6

Age at death: under 10

Maine Yankee (1972)
Lincoln, ME ; Sagadahoc, ME

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.38	2.10	1.49	0.98
ALL CANCER, EXCL LEUK	0.94	1.13	0.95	0.79
HODGKIN'S DISEASE	8.89	-	0.00	0.00
OTHER LYMPHOMA	0.00	-	-	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	9.00	0.00	0.00	3.26
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.00	0.00	-	2.51
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	-	-	0.00
BLADDER	-	-	0.00	-
BRAIN & OTHER C.N.S.	0.97	0.00	0.00	1.31
BENIGN & UNSPEC NEOPLASMS	4.41	0.00	0.00	1.26

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.6

Age at death: 10 to 19

Maine Yankee (1972)
Lincoln, ME ; Sagadahoc, ME

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	0	0.00	36	1.04	1	0.53	15	0.88
ALL CANCER, EXCL LEUK	7	1.00	70	1.07	4	1.20	25	0.83
HODGKIN'S DISEASE	1	1.36	9	1.29	1	4.53	2	0.97
OTHER LYMPHOMA	1	0.96	8	0.83	0	0.00	4	0.91
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	2	0.65	0	0.00	1	0.74
STOMACH	0	0.00	1	4.63	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	1	0.99	0	0.00	1	1.65
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	1	3.51
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	14	1.14	0	0.00	4	0.72
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	2	1.14	17	1.04	1	1.13	6	0.77
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	1	0.58

Table 1-C.6

Age at death: 10 to 19

Maine Yankee (1972)
Lincoln, ME ; Sagadahoc, ME

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.00	0.60	-	0.85
ALL CANCER, EXCL LEUK	0.93	1.45	1.20	0.78
HODGKIN'S DISEASE	1.05	4.67	3.33	0.75
OTHER LYMPHOMA	1.16	0.00	0.00	1.10
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	0.00	-	1.14
STOMACH	0.00	-	-	0.00
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.00	0.00	-	1.67
TRACHEA, BRONCHUS, LUNG	-	0.00	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	0.00	-	0.63
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.10	1.47	0.99	0.74
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.6

Age at death: 20 to 39

Maine Yankee (1972)
Lincoln, ME ; Sagadahoc, ME

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	5	1.01	45	0.96	8	2.28	36	1.22
ALL CANCER, EXCL LEUK	53	1.22	457	1.12	26	0.96	229	1.03
HODGKIN'S DISEASE	7	1.71	37	0.95	4	2.13	18	1.13
OTHER LYMPHOMA	1	0.41	23	0.99	1	0.55	20	1.32
MULTIPLE MYELOMA	0	0.00	5	2.98	0	0.00	0	0.00
DIGESTIVE ORGANS	12	1.66	92	1.36	4	1.05	36	1.16
STOMACH	1	0.68	25	1.82	0	0.00	6	1.22
COLON & RECTUM	7	1.93	47	1.38	3	1.59	15	0.98
LIVER (PRIMARY)	3	4.32	4	0.61	0	0.00	2	0.65
TRACHEA, BRONCHUS, LUNG	5	1.52	36	1.18	4	1.55	21	1.02
BREAST (FEMALE)	5	0.83	45	0.80	4	0.97	30	0.89
THYROID	0	0.00	2	1.46	0	0.00	0	0.00
BONES & JOINTS	0	0.00	4	0.52	0	0.00	7	1.49
BLADDER	1	5.62	2	1.20	0	0.00	1	1.46
BRAIN & OTHER C.N.S.	2	0.51	37	1.00	3	1.11	23	1.03
BENIGN & UNSPEC NEOPLASMS	1	4.75	3	1.57	0	0.00	9	1.88

Table 1-C.6

Age at death: 20 to 39

Maine Yankee (1972)
Lincoln, ME ; Sagadahoc, ME

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.05	1.87	2.26	1.27
ALL CANCER, EXCL LEUK	1.09	0.93	0.79	0.92
HODGKIN'S DISEASE	1.80	1.88	1.25	1.19
OTHER LYMPHOMA	0.41	0.42	1.34	1.33
MULTIPLE MYELOMA	0.00	-	-	0.00
DIGESTIVE ORGANS	1.22	0.91	0.63	0.85
STOMACH	0.37	0.00	0.00	0.67
COLON & RECTUM	1.40	1.62	0.82	0.71
LIVER (PRIMARY)	7.08*	0.00	0.00	1.07
TRACHEA, BRONCHUS, LUNG	1.29	1.52	1.02	0.86
BREAST (FEMALE)	1.04	1.09	1.17	1.11
THYROID	0.00	-	-	0.00
BONES & JOINTS	0.00	0.00	-	2.87
BLADDER	4.68	0.00	0.00	1.22
BRAIN & OTHER C.N.S.	0.51	1.08	2.18	1.03
BENIGN & UNSPEC NEOPLASMS	3.03	0.00	0.00	1.20

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.6

Age at death: 40 to 59

Maine Yankee (1972)
Lincoln, ME ; Sagadahoc, ME

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	5	0.37	103	0.84	4	0.57	56	0.91
ALL CANCER, EXCL LEUK	426	1.13	3569	1.05	267	1.18	2113	1.06
HODGKIN'S DISEASE	6	1.12	61	1.27	1	0.62	15	1.07
OTHER LYMPHOMA	14	1.19	103	0.97	9	1.23	62	0.97
MULTIPLE MYELOMA	2	0.50	34	0.94	2	0.74	26	1.10
DIGESTIVE ORGANS	97	0.95	974	1.06	59	1.22	416	0.99
STOMACH	20	1.03	190	1.09	6	0.96	39	0.71
COLON & RECTUM	42	0.93	461	1.13	25	1.12	214	1.10
LIVER (PRIMARY)	11	1.05	93	0.98	2	0.77	16	0.71
TRACHEA, BRONCHUS, LUNG	91	1.23	674	1.03	92	1.35	667	1.12
BREAST (FEMALE)	52	0.97	485	0.99	37	1.18	273	0.97
THYROID	0	0.00	8	0.69	1	2.06	4	0.94
BONES & JOINTS	5	2.22	17	0.84	0	0.00	8	1.37
BLADDER	6	1.02	66	1.25	7	2.79	25	1.14
BRAIN & OTHER C.N.S.	20	1.38	126	0.97	6	0.71	93	1.25
BENIGN & UNSPEC NEOPLASMS	3	3.62	17	2.25	4	2.18	19	1.17

Table 1-C.6

Age at death: 40 to 59

Maine Yankee (1972)
Lincoln, ME ; Sagadahoc, ME

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.44	0.63	1.54	1.08
ALL CANCER, EXCL LEUK	1.08	1.11	1.04	1.01
HODGKIN'S DISEASE	0.88	0.58	0.55	0.84
OTHER LYMPHOMA	1.23	1.27	1.03	1.00
MULTIPLE MYELOMA	0.53	0.67	1.48	1.17
DIGESTIVE ORGANS	0.90	1.23	1.28	0.93
STOMACH	0.94	1.35	0.93	0.65*
COLON & RECTUM	0.82	1.02	1.20	0.97
LIVER (PRIMARY)	1.07	1.08	0.73	0.72
TRACHEA, BRONCHUS, LUNG	1.19	1.21	1.10	1.09
BREAST (FEMALE)	0.98	1.22	1.22	0.98
THYROID	0.00	2.19	-	1.36
BONES & JOINTS	2.64	0.00	0.00	1.63
BLADDER	0.82	2.45	2.74	0.91
BRAIN & OTHER C.N.S.	1.42	0.57	0.51	1.29
BENIGN & UNSPEC NEOPLASMS	1.61	1.86	0.60	0.52

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.6

Age at death: 60 plus

Maine Yankee (1972)
Lincoln, ME ; Sagadahoc, ME

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	42	0.80	396	0.94	24	0.63	299	0.99
ALL CANCER, EXCL LEUK	1475	1.09	11894	1.09	1114	1.14	8582	1.10
HODGKIN'S DISEASE	17	2.06	99	1.47	3	0.87	22	0.79
OTHER LYMPHOMA	29	0.92	247	0.96	28	0.91	260	1.05
MULTIPLE MYELOMA	7	0.47	110	0.91	13	0.80	120	0.92
DIGESTIVE ORGANS	608	1.13	4740	1.09	319	1.06	2615	1.09
STOMACH	127	1.06	961	1.00	47	1.20	309	0.99
COLON & RECTUM	310	1.28	2358	1.20	154	1.01	1382	1.13
LIVER (PRIMARY)	48	0.87	445	0.99	9	0.64	92	0.82
TRACHEA, BRONCHUS, LUNG	216	1.12	1619	1.05	264	1.11	2057	1.10
BREAST (FEMALE)	92	0.93	911	1.08	93	1.25	699	1.13
THYROID	9	1.63	43	0.94	3	1.09	18	0.80
BONES & JOINTS	7	0.90	66	1.05	1	0.39	21	1.02
BLADDER	48	0.91	479	1.15	49	1.56	313	1.27
BRAIN & OTHER C.N.S.	11	0.78	133	1.15	23	1.24	151	1.02
BENIGN & UNSPEC NEOPLASMS	6	2.50	19	0.99	10	1.40	70	1.22

Table 1-C.6

Age at death: 60 plus

Maine Yankee (1972)
Lincoln, ME ; Sagadahoc, ME

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.85	0.64*	0.79	1.05
ALL CANCER, EXCL LEUK	1.00	1.04	1.05	1.01
HODGKIN'S DISEASE	1.40	1.10	0.42	0.54**
OTHER LYMPHOMA	0.96	0.87	0.99	1.09
MULTIPLE MYELOMA	0.52	0.87	1.70	1.01
DIGESTIVE ORGANS	1.04	0.97	0.94	1.00
STOMACH	1.06	1.21	1.13	0.99
COLON & RECTUM	1.07	0.89	0.79*	0.94
LIVER (PRIMARY)	0.88	0.78	0.74	0.83
TRACHEA, BRONCHUS, LUNG	1.07	1.01	0.99	1.05
BREAST (FEMALE)	0.86	1.11	1.34	1.05
THYROID	1.73	1.36	0.67	0.85
BONES & JOINTS	0.86	0.38	0.43	0.97
BLADDER	0.79	1.23	1.71*	1.10
BRAIN & OTHER C.N.S.	0.68	1.22	1.59	0.89
BENIGN & UNSPEC NEOPLASMS	2.53	1.15	0.56	1.23

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.6

Age at death: all

Maine Yankee (1972)
Lincoln, ME ; Sagadahoc, ME

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	62	0.75	646	0.93	41	0.78	421	0.98
ALL CANCER, EXCL LEUK	1967	1.10	16048	1.08	1413	1.14	10963	1.09
HODGKIN'S DISEASE	32	1.73	207	1.28	9	1.25	57	0.95
OTHER LYMPHOMA	45	0.94	386	0.95	38	0.93	346	1.04
MULTIPLE MYELOMA	9	0.47	149	0.94	15	0.78	146	0.94
DIGESTIVE ORGANS	718	1.10	5809	1.09	382	1.08	3069	1.07
STOMACH	148	1.05	1177	1.03	53	1.15	354	0.96
COLON & RECTUM	359	1.23	2866	1.19	182	1.03	1611	1.13
LIVER (PRIMARY)	62	0.93	544	0.98	11	0.64	112	0.80
TRACHEA, BRONCHUS, LUNG	312	1.15	2330	1.05	360	1.17	2746	1.11
BREAST (FEMALE)	149	0.94	1441	1.04	134	1.22	1002	1.07
THYROID	9	1.29	53	0.90	4	1.21	22	0.81
BONES & JOINTS	12	0.96	103	0.98	1	0.22	40	1.07
BLADDER	56	0.95	547	1.16	56	1.65	339	1.26
BRAIN & OTHER C.N.S.	38	1.01	341	1.04	33	1.04	283	1.08
BENIGN & UNSPEC NEOPLASMS	11	3.00	41	1.33	14	1.40	104	1.26

Table 1-C.6

Age at death: all

Maine Yankee (1972)
Lincoln, ME ; Sagadahoc, ME

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.81	0.80	1.04	1.05
ALL CANCER, EXCL LEUK	1.02	1.05	1.04	1.01
HODGKIN'S DISEASE	1.35	1.32	0.72	0.74
OTHER LYMPHOMA	0.99	0.89	0.99	1.09
MULTIPLE MYELOMA	0.50*	0.83	1.66	1.00
DIGESTIVE ORGANS	1.01	1.01	0.98	0.98
STOMACH	1.02	1.20	1.10	0.93
COLON & RECTUM	1.03	0.91	0.84	0.95
LIVER (PRIMARY)	0.95	0.80	0.69	0.82
TRACHEA, BRONCHUS, LUNG	1.10	1.05	1.02	1.06*
BREAST (FEMALE)	0.90	1.14	1.30*	1.03
THYROID	1.43	1.49	0.94	0.90
BONES & JOINTS	0.98	0.21	0.23	1.09
BLADDER	0.82	1.31	1.74**	1.09
BRAIN & OTHER C.N.S.	0.97	0.96	1.03	1.04
BENIGN & UNSPEC NEOPLASMS	2.26*	1.11	0.47	0.95

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.7

Age at death: under 10

Pilgrim 1 (1972)
Plymouth, MA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	50	0.94	185	0.96	16	0.96	47	1.05
ALL CANCER, EXCL LEUK	49	0.90	168	0.85	22	1.00	42	0.71
HODGKIN'S DISEASE	1	1.22	1	0.33	0	0.00	0	0.00
OTHER LYMPHOMA	2	0.27	22	0.82	1	0.43	7	1.13
MULTIPLE MYELOMA	0	0.00	1	13.63	0	0.00	0	0.00
DIGESTIVE ORGANS	1	0.36	5	0.49	2	1.77	0	0.00
STOMACH	0	0.00	0	0.00	1	35.24	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	1	0.60	1	0.17	1	1.15	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	1	0.61	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	1	18.81	1	4.89	0	0.00	0	0.00
BONES & JOINTS	1	0.51	6	0.83	1	1.34	2	1.00
BLADDER	1	3.24	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	26	1.19	73	0.92	7	0.89	17	0.80
BENIGN & UNSPEC NEOPLASMS	2	1.75	8	2.43	1	0.44	6	0.97

Table 1-C.7

Age at death: under 10

Pilgrim 1 (1972)
Plymouth, MA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.98	0.91	1.02	1.09
ALL CANCER, EXCL LEUK	1.06	1.41	1.11	0.84
HODGKIN'S DISEASE	3.70	-	0.00	0.00
OTHER LYMPHOMA	0.33	0.38	1.59	1.38
MULTIPLE MYELOMA	0.00	-	-	0.00
DIGESTIVE ORGANS	0.73	-	4.92	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	3.53	-	1.92	0.00
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	3.85	-	0.00	0.00
BONES & JOINTS	0.61	1.34	2.63	1.20
BLADDER	-	-	0.00	-
BRAIN & OTHER C.N.S.	1.29	1.11	0.75	0.87
BENIGN & UNSPEC NEOPLASMS	0.72	0.45	0.25	0.40

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-C.7

Age at death: 10 to 19

Pilgrim 1 (1972)
Plymouth, MA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	21	0.90	101	1.09	13	0.82	55	1.19
ALL CANCER, EXCL LEUK	45	1.04	147	0.84	18	0.64	65	0.78
HODGKIN'S DISEASE	5	1.12	22	1.18	2	1.08	5	0.89
OTHER LYMPHOMA	12	1.85	18	0.69	5	1.23	9	0.75
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	1	13.76
DIGESTIVE ORGANS	1	0.51	8	0.97	0	0.00	1	0.27
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	1.42	2	0.65	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	3	1.11	0	0.00	1	0.60
TRACHEA, BRONCHUS, LUNG	0	0.00	2	1.00	0	0.00	2	2.56
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	1	2.10	0	0.00	0	0.00
BONES & JOINTS	5	0.62	31	0.94	2	0.39	13	0.86
BLADDER	0	0.00	2	12.66	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	8	0.73	26	0.60	4	0.54	16	0.75
BENIGN & UNSPEC NEOPLASMS	0	0.00	2	0.77	0	0.00	6	1.27

Table 1-C.7

Age at death: 10 to 19

Pilgrim 1 (1972)
Plymouth, MA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.83	0.69	0.91	1.09
ALL CANCER, EXCL LEUK	1.24	0.82	0.62	0.93
HODGKIN'S DISEASE	0.95	1.21	0.96	0.75
OTHER LYMPHOMA	2.68*	1.64	0.66	1.09
MULTIPLE MYELOMA	-	0.00	-	-
DIGESTIVE ORGANS	0.53	0.00	0.00	0.28
STOMACH	-	-	-	-
COLON & RECTUM	2.18	-	0.00	0.00
LIVER (PRIMARY)	0.00	0.00	-	0.54
TRACHEA, BRONCHUS, LUNG	0.00	0.00	-	2.56
BREAST (FEMALE)	-	-	-	-
THYROID	0.00	-	-	0.00
BONES & JOINTS	0.66	0.45	0.63	0.91
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	1.22	0.72	0.74	1.25
BENIGN & UNSPEC NEOPLASMS	0.00	0.00	-	1.65

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.7

Age at death: 20 to 39

Pilgrim 1 (1972)
Plymouth, MA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	33	0.99	112	0.81	23	0.87	81	1.05
ALL CANCER, EXCL LEUK	296	1.00	1187	0.98	239	1.14	534	0.92
HODGKIN'S DISEASE	42	1.53	138	1.21	16	1.13	44	1.06
OTHER LYMPHOMA	12	0.72	85	1.24	12	0.86	35	0.89
MULTIPLE MYELOMA	0	0.00	4	0.80	2	2.24	1	0.43
DIGESTIVE ORGANS	47	0.95	228	1.13	32	1.06	69	0.85
STOMACH	16	1.61	51	1.24	5	1.03	12	0.92
COLON & RECTUM	21	0.86	114	1.13	15	1.01	28	0.70
LIVER (PRIMARY)	2	0.42	17	0.86	6	2.03	10	1.22
TRACHEA, BRONCHUS, LUNG	24	1.03	63	0.70	21	1.03	54	1.01
BREAST (FEMALE)	44	1.07	177	1.06	41	1.22	77	0.88
THYROID	1	1.01	6	1.48	1	1.87	1	0.68
BONES & JOINTS	7	1.35	22	0.97	4	1.01	7	0.57
BLADDER	4	3.29	7	1.41	1	1.48	4	2.24
BRAIN & OTHER C.N.S.	24	0.90	90	0.83	16	0.78	47	0.81
BENIGN & UNSPEC NEOPLASMS	2	1.17	6	1.08	4	0.90	10	0.78

Table 1-C.7

Age at death: 20 to 39

Pilgrim 1 (1972)
Plymouth, MA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.22	0.83	0.88	1.30
ALL CANCER, EXCL LEUK	1.02	1.24**	1.14	0.94
HODGKIN'S DISEASE	1.26	1.07	0.74	0.88
OTHER LYMPHOMA	0.58	0.97	1.19	0.72
MULTIPLE MYELOMA	0.00	5.21	-	0.54
DIGESTIVE ORGANS	0.84	1.25	1.12	0.75*
STOMACH	1.30	1.12	0.64	0.74
COLON & RECTUM	0.76	1.44	1.17	0.62*
LIVER (PRIMARY)	0.49	1.66	4.83	1.42
TRACHEA, BRONCHUS, LUNG	1.47	1.02	1.00	1.44
BREAST (FEMALE)	1.01	1.39	1.14	0.83
THYROID	0.68	2.75	1.85	0.46
BONES & JOINTS	1.39	1.77	0.75	0.59
BLADDER	2.33	0.66	0.45	1.59
BRAIN & OTHER C.N.S.	1.08	0.96	0.87	0.98
BENIGN & UNSPEC NEOPLASMS	1.08	1.15	0.77	0.72

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.7

Age at death: 40 to 59

Pilgrim 1 (1972)
Plymouth, MA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	72	0.88	323	0.89	44	0.86	147	0.85
ALL CANCER, EXCL LEUK	2368	1.03	10310	1.02	1706	1.04	5758	1.03
HODGKIN'S DISEASE	48	1.47	184	1.29	16	1.36	45	1.15
OTHER LYMPHOMA	70	0.97	304	0.97	42	0.80	187	1.05
MULTIPLE MYELOMA	22	0.90	102	0.95	18	0.91	67	0.99
DIGESTIVE ORGANS	656	1.07	3109	1.14	373	1.06	1348	1.12
STOMACH	118	1.02	662	1.28	48	1.04	227	1.45
COLON & RECTUM	322	1.19	1418	1.17	174	1.09	598	1.08
LIVER (PRIMARY)	48	0.78	275	0.98	14	0.73	60	0.93
TRACHEA, BRONCHUS, LUNG	421	0.92	1800	0.92	472	0.96	1565	0.94
BREAST (FEMALE)	377	1.16	1535	1.04	264	1.16	849	1.07
THYROID	9	1.18	25	0.73	4	1.14	13	1.08
BONES & JOINTS	18	1.35	60	1.00	3	0.62	15	0.90
BLADDER	36	1.03	156	1.00	20	1.11	81	1.30
BRAIN & OTHER C.N.S.	81	0.92	351	0.91	56	0.91	199	0.96
BENIGN & UNSPEC NEOPLASMS	6	0.99	29	1.24	15	1.11	51	1.09

Table 1-C.7

Age at death: 40 to 59

Pilgrim 1 (1972)
Plymouth, MA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.99	1.01	0.98	0.96
ALL CANCER, EXCL LEUK	1.01	1.01	1.01	1.01
HODGKIN'S DISEASE	1.14	1.18	0.93	0.89
OTHER LYMPHOMA	1.00	0.76	0.82	1.08
MULTIPLE MYELOMA	0.95	0.92	1.01	1.04
DIGESTIVE ORGANS	0.94	0.95	0.99	0.98
STOMACH	0.80*	0.72*	1.02	1.13
COLON & RECTUM	1.02	1.01	0.92	0.92
LIVER (PRIMARY)	0.80	0.78	0.94	0.95
TRACHEA, BRONCHUS, LUNG	1.00	1.02	1.04	1.02
BREAST (FEMALE)	1.12	1.08	1.00	1.03
THYROID	1.62	1.06	0.97	1.48
BONES & JOINTS	1.35	0.69	0.46	0.90
BLADDER	1.03	0.85	1.08	1.30
BRAIN & OTHER C.N.S.	1.01	0.95	0.99	1.05
BENIGN & UNSPEC NEOPLASMS	0.80	1.02	1.12	0.88

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-C.7

Age at death: 60 plus

Pilgrim 1 (1972)
Plymouth, MA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	226	0.87	971	0.89	170	0.79	734	0.93
ALL CANCER, EXCL LEUK	7321	1.08	30445	1.07	6034	1.08	22213	1.08
HODGKIN'S DISEASE	44	1.05	237	1.33	23	1.17	84	1.14
OTHER LYMPHOMA	163	1.01	599	0.88	187	1.07	620	0.95
MULTIPLE MYELOMA	89	1.16	325	1.01	86	0.91	331	0.95
DIGESTIVE ORGANS	3063	1.14	12919	1.15	1927	1.12	7551	1.19
STOMACH	647	1.10	3037	1.24	258	1.16	1198	1.46
COLON & RECTUM	1486	1.22	6058	1.20	1013	1.17	3879	1.21
LIVER (PRIMARY)	280	1.01	1110	0.95	68	0.84	269	0.90
TRACHEA, BRONCHUS, LUNG	922	0.95	3864	0.95	1373	1.02	4658	0.94
BREAST (FEMALE)	584	1.10	2513	1.11	515	1.16	1990	1.19
THYROID	39	1.37	102	0.85	11	0.69	61	1.03
BONES & JOINTS	46	1.20	186	1.15	12	0.82	58	1.07
BLADDER	308	1.21	1231	1.17	202	1.17	718	1.12
BRAIN & OTHER C.N.S.	70	0.96	286	0.90	102	0.96	392	0.99
BENIGN & UNSPEC NEOPLASMS	16	1.23	65	1.24	55	1.35	207	1.36

Table 1-C.7

Age at death: 60 plus

Pilgrim 1 (1972)
Plymouth, MA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.98	0.85	0.91	1.04
ALL CANCER, EXCL LEUK	1.01	1.00	1.00	1.01
HODGKIN'S DISEASE	0.79	1.03	1.11	0.86
OTHER LYMPHOMA	1.15	1.13	1.06	1.08
MULTIPLE MYELOMA	1.15	0.96	0.78	0.94
DIGESTIVE ORGANS	0.99	0.94*	0.98	1.03*
STOMACH	0.89**	0.79***	1.05	1.18***
COLON & RECTUM	1.02	0.97	0.96	1.01
LIVER (PRIMARY)	1.06	0.93	0.83	0.95
TRACHEA, BRONCHUS, LUNG	1.00	1.09**	1.07	0.99
BREAST (FEMALE)	0.99	0.97	1.05	1.07*
THYROID	1.61*	0.67	0.50	1.21
BONES & JOINTS	1.04	0.77	0.68	0.93
BLADDER	1.03	1.04	0.97	0.96
BRAIN & OTHER C.N.S.	1.07	0.97	1.00	1.10
BENIGN & UNSPEC NEOPLASMS	0.99	0.99	1.10	1.10

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-C.7

Age at death: all

Pilgrim 1 (1972)
Plymouth, MA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	402	0.89	1692	0.90	266	0.82	1064	0.94
ALL CANCER, EXCL LEUK	10079	1.07	42257	1.05	8019	1.07	28612	1.06
HODGKIN'S DISEASE	140	1.31	582	1.28	57	1.20	178	1.11
OTHER LYMPHOMA	259	0.98	1028	0.92	247	1.00	858	0.97
MULTIPLE MYELOMA	111	1.08	432	0.99	106	0.92	400	0.96
DIGESTIVE ORGANS	3768	1.12	16269	1.15	2334	1.11	8969	1.18
STOMACH	781	1.09	3750	1.25	312	1.14	1437	1.45
COLON & RECTUM	1830	1.21	7592	1.19	1202	1.15	4505	1.18
LIVER (PRIMARY)	331	0.96	1406	0.95	89	0.85	340	0.91
TRACHEA, BRONCHUS, LUNG	1367	0.95	5730	0.94	1866	1.01	6279	0.94
BREAST (FEMALE)	1005	1.12	4225	1.08	820	1.16	2916	1.14
THYROID	50	1.34	135	0.85	16	0.80	75	1.03
BONES & JOINTS	77	1.15	305	1.07	22	0.75	95	0.95
BLADDER	349	1.20	1396	1.15	223	1.16	803	1.14
BRAIN & OTHER C.N.S.	209	0.95	826	0.88	185	0.91	671	0.95
BENIGN & UNSPEC NEOPLASMS	26	1.15	110	1.26	75	1.20	280	1.26

Table 1-C.7

Age at death: all

Pilgrim 1 (1972)
Plymouth, MA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.99	0.87*	0.92	1.04
ALL CANCER, EXCL LEUK	1.02	1.01	1.00	1.01
HODGKIN'S DISEASE	1.02	1.08	0.92	0.87
OTHER LYMPHOMA	1.07	1.03	1.02	1.05
MULTIPLE MYELOMA	1.09	0.96	0.85	0.97
DIGESTIVE ORGANS	0.97	0.94*	0.99	1.03*
STOMACH	0.87***	0.79***	1.05	1.16***
COLON & RECTUM	1.02	0.97	0.95	0.99
LIVER (PRIMARY)	1.01	0.93	0.89	0.96
TRACHEA, BRONCHUS, LUNG	1.01	1.07*	1.06	1.00
BREAST (FEMALE)	1.04	1.02	1.04	1.06*
THYROID	1.58**	0.78	0.60	1.21
BONES & JOINTS	1.07	0.79	0.65	0.89
BLADDER	1.04	1.02	0.97	0.99
BRAIN & OTHER C.N.S.	1.08	0.96	0.96	1.08
BENIGN & UNSPEC NEOPLASMS	0.91	0.95	1.04	1.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.8

Age at death: under 10

Quad Cities 1,2 (1972)
Rock Island, IL ; Whiteside, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	46	1.11	107	0.89	12	1.29	33	1.17
ALL CANCER, EXCL LEUK	43	1.01	129	1.04	17	1.36	48	1.26
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	2	0.34	8	0.47	4	3.12	4	1.02
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	0.46	8	1.25	4	6.08	4	1.99
STOMACH	0	0.00	0	0.00	1	61.54	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	1	0.78	4	1.06	3	5.94	3	1.96
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	1	6.36	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.64	2	0.44	1	2.46	1	0.80
BLADDER	0	0.00	1	1.38	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	22	1.28	59	1.18	4	0.90	18	1.32
BENIGN & UNSPEC NEOPLASMS	2	2.89	2	0.96	0	0.00	7	1.72

Table 1-C.8

Age at death: under 10

Quad Cities 1,2 (1972)
Rock Island, IL ; Whiteside, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.25	1.10	1.16	1.31
ALL CANCER, EXCL LEUK	0.97	1.08	1.35	1.21
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	0.72	3.06	9.18*	2.17
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.37	3.06	13.22*	1.59
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.74	3.03	7.62	1.85
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	0.00	-	-	0.00
THYROID	-	-	-	-
BONES & JOINTS	1.45	3.08	3.84	1.82
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	1.08	0.68	0.70	1.12
BENIGN & UNSPEC NEOPLASMS	3.01	0.00	0.00	1.79

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.8

Age at death: 10 to 19

Quad Cities 1,2 (1972)
Rock Island, IL ; Whiteside, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	20	1.08	52	0.96	3	0.34	31	1.17
ALL CANCER, EXCL LEUK	29	0.83	111	1.09	15	0.94	55	1.15
HODGKIN'S DISEASE	3	0.82	11	1.03	0	0.00	4	1.25
OTHER LYMPHOMA	6	1.16	12	0.80	3	1.31	6	0.88
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	1	24.83
DIGESTIVE ORGANS	1	0.61	6	1.24	1	1.34	5	2.20
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	1.66	2	1.11	0	0.00	2	2.67
LIVER (PRIMARY)	0	0.00	4	2.48	1	3.06	2	2.02
TRACHEA, BRONCHUS, LUNG	0	0.00	3	2.59	2	13.26	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	5	0.77	19	1.00	1	0.35	10	1.16
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	8	0.91	34	1.33	5	1.22	11	0.89
BENIGN & UNSPEC NEOPLASMS	1	1.90	0	0.00	1	1.07	2	0.71

Table 1-C.8

Age at death: 10 to 19

Quad Cities 1,2 (1972)
Rock Island, IL ; Whiteside, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.13	0.29*	0.31	1.22
ALL CANCER, EXCL LEUK	0.76	0.82	1.13	1.06
HODGKIN'S DISEASE	0.80	0.00	0.00	1.21
OTHER LYMPHOMA	1.45	1.49	1.13	1.10
MULTIPLE MYELOMA	-	0.00	-	-
DIGESTIVE ORGANS	0.49	0.61	2.20	1.77
STOMACH	-	-	-	-
COLON & RECTUM	1.50	0.00	0.00	2.41
LIVER (PRIMARY)	0.00	1.51	-	0.81
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.77	0.30	0.45	1.16
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.68	1.37	1.34	0.67
BENIGN & UNSPEC NEOPLASMS	-	1.51	0.56	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.8

Age at death: 20 to 39

Quad Cities 1,2 (1972)
Rock Island, IL ; Whiteside, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	28	1.03	69	0.83	11	0.73	50	1.06
ALL CANCER, EXCL LEUK	264	1.10	708	0.97	97	0.87	358	1.00
HODGKIN'S DISEASE	28	1.25	60	0.88	6	0.75	20	0.80
OTHER LYMPHOMA	18	1.33	48	1.17	6	0.79	20	0.83
MULTIPLE MYELOMA	1	1.00	2	0.65	1	2.16	2	1.32
DIGESTIVE ORGANS	42	1.05	136	1.11	19	1.19	51	0.99
STOMACH	5	0.61	21	0.84	1	0.39	6	0.71
COLON & RECTUM	22	1.10	71	1.17	11	1.42	26	1.04
LIVER (PRIMARY)	6	1.52	17	1.40	5	3.03	5	0.93
TRACHEA, BRONCHUS, LUNG	17	0.94	59	1.06	7	0.68	40	1.20
BREAST (FEMALE)	38	1.15	88	0.88	11	0.66	63	1.17
THYROID	1	1.24	3	1.23	1	3.53	0	0.00
BONES & JOINTS	6	1.36	12	0.89	3	1.25	12	1.62
BLADDER	3	3.02	3	0.99	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	18	0.84	66	1.01	7	0.63	30	0.86
BENIGN & UNSPEC NEOPLASMS	1	0.89	2	0.56	1	0.39	8	0.99

Table 1-C.8

Age at death: 20 to 39

Quad Cities 1,2 (1972)
Rock Island, IL ; Whiteside, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.24	0.69	0.71	1.28
ALL CANCER, EXCL LEUK	1.13	0.87	0.79*	1.03
HODGKIN'S DISEASE	1.42	0.94	0.60	0.91
OTHER LYMPHOMA	1.14	0.95	0.59	0.71
MULTIPLE MYELOMA	1.54	1.64	2.16	2.03
DIGESTIVE ORGANS	0.95	1.20	1.13	0.89
STOMACH	0.73	0.55	0.64	0.85
COLON & RECTUM	0.94	1.37	1.29	0.89
LIVER (PRIMARY)	1.09	3.26	1.99	0.66
TRACHEA, BRONCHUS, LUNG	0.89	0.57	0.72	1.13
BREAST (FEMALE)	1.31	0.56	0.57	1.33
THYROID	1.01	-	2.85	0.00
BONES & JOINTS	1.53	0.77	0.92	1.82
BLADDER	3.05	-	0.00	0.00
BRAIN & OTHER C.N.S.	0.83	0.73	0.75	0.85
BENIGN & UNSPEC NEOPLASMS	1.59	0.39	0.44	1.77

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.8

Age at death: 40 to 59

Quad Cities 1,2 (1972)
Rock Island, IL ; Whiteside, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	81	1.17	188	0.95	30	0.92	108	1.09
ALL CANCER, EXCL LEUK	1895	0.98	5314	0.96	1023	0.97	3266	1.02
HODGKIN'S DISEASE	15	0.55	81	1.03	4	0.54	27	1.20
OTHER LYMPHOMA	76	1.27	180	1.05	38	1.14	122	1.21
MULTIPLE MYELOMA	13	0.63	65	1.08	12	0.93	47	1.19
DIGESTIVE ORGANS	542	1.03	1394	0.93	224	0.98	659	0.95
STOMACH	92	0.92	222	0.77	30	1.00	72	0.79
COLON & RECTUM	275	1.20	662	1.01	111	1.07	320	1.02
LIVER (PRIMARY)	59	1.10	150	0.98	15	1.20	28	0.73
TRACHEA, BRONCHUS, LUNG	359	0.94	1041	0.96	293	0.93	980	1.02
BREAST (FEMALE)	239	0.89	791	1.02	129	0.88	426	0.97
THYROID	6	0.92	22	1.18	1	0.44	6	0.88
BONES & JOINTS	7	0.61	19	0.58	3	0.95	12	1.26
BLADDER	24	0.80	86	1.00	11	0.94	37	1.05
BRAIN & OTHER C.N.S.	74	1.01	219	1.04	39	1.01	125	1.07
BENIGN & UNSPEC NEOPLASMS	6	1.36	10	0.77	9	1.01	25	0.93

Table 1-C.8

Age at death: 40 to 59

Quad Cities 1,2 (1972)
Rock Island, IL ; Whiteside, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.23	0.84	0.79	1.15
ALL CANCER, EXCL LEUK	1.02	0.95	0.99	1.06**
HODGKIN'S DISEASE	0.53*	0.45	0.98	1.17
OTHER LYMPHOMA	1.21	0.94	0.90	1.15
MULTIPLE MYELOMA	0.58	0.78	1.48	1.10
DIGESTIVE ORGANS	1.11*	1.03	0.95	1.02
STOMACH	1.19	1.27	1.09	1.03
COLON & RECTUM	1.19*	1.05	0.89	1.01
LIVER (PRIMARY)	1.12	1.64	1.09	0.74
TRACHEA, BRONCHUS, LUNG	0.98	0.91	0.99	1.06
BREAST (FEMALE)	0.87	0.91	0.99	0.95
THYROID	0.78	0.50	0.48	0.75
BONES & JOINTS	1.05	0.75	1.56	2.17
BLADDER	0.80	0.90	1.18	1.05
BRAIN & OTHER C.N.S.	0.97	0.94	1.00	1.03
BENIGN & UNSPEC NEOPLASMS	1.77	1.09	0.74	1.21

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.8

Age at death: 60 plus

Quad Cities 1,2 (1972)
Rock Island, IL ; Whiteside, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	217	1.11	589	1.05	179	1.29	453	1.09
ALL CANCER, EXCL LEUK	5040	1.00	14357	0.98	3658	1.01	10957	1.01
HODGKIN'S DISEASE	29	0.91	95	1.04	12	0.93	39	1.02
OTHER LYMPHOMA	119	0.98	348	0.99	112	0.99	349	1.04
MULTIPLE MYELOMA	57	0.99	172	1.02	78	1.27	186	1.01
DIGESTIVE ORGANS	2032	1.02	5611	0.97	1158	1.04	3182	0.96
STOMACH	413	0.94	1132	0.90	129	0.89	333	0.76
COLON & RECTUM	1001	1.12	2685	1.04	607	1.08	1717	1.02
LIVER (PRIMARY)	198	0.96	558	0.94	68	1.29	139	0.88
TRACHEA, BRONCHUS, LUNG	673	0.89	2062	0.95	892	1.00	2693	1.03
BREAST (FEMALE)	385	1.02	1200	1.08	272	0.96	964	1.14
THYROID	26	1.25	61	1.01	15	1.47	28	0.91
BONES & JOINTS	30	1.04	85	1.03	13	1.35	30	1.05
BLADDER	213	1.11	597	1.09	100	0.88	345	1.02
BRAIN & OTHER C.N.S.	54	0.95	171	1.04	67	0.96	231	1.13
BENIGN & UNSPEC NEOPLASMS	9	0.97	28	1.01	33	1.23	75	0.93

Table 1-C.8

Age at death: 60 plus

Quad Cities 1,2 (1972)
Rock Island, IL ; Whiteside, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.06	1.18	1.16	1.04
ALL CANCER, EXCL LEUK	1.02	1.00	1.01	1.03*
HODGKIN'S DISEASE	0.88	0.91	1.02	0.98
OTHER LYMPHOMA	0.99	0.95	1.01	1.05
MULTIPLE MYELOMA	0.97	1.26	1.28	0.99
DIGESTIVE ORGANS	1.05	1.08*	1.02	0.99
STOMACH	1.04	1.17	0.95	0.84**
COLON & RECTUM	1.08*	1.06	0.96	0.98
LIVER (PRIMARY)	1.02	1.47*	1.34	0.94
TRACHEA, BRONCHUS, LUNG	0.94	0.97	1.12*	1.08**
BREAST (FEMALE)	0.94	0.84*	0.94	1.06
THYROID	1.24	1.62	1.18	0.90
BONES & JOINTS	1.01	1.29	1.30	1.02
BLADDER	1.02	0.86	0.79	0.94
BRAIN & OTHER C.N.S.	0.91	0.85	1.01	1.09
BENIGN & UNSPEC NEOPLASMS	0.96	1.32	1.27	0.92

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.8

Age at death: all

Quad Cities 1,2 (1972)
Rock Island, IL ; Whiteside, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	392	1.11	1005	0.99	235	1.15	675	1.10
ALL CANCER, EXCL LEUK	7271	0.99	20619	0.98	4810	0.99	14684	1.01
HODGKIN'S DISEASE	75	0.87	247	0.99	22	0.74	90	1.01
OTHER LYMPHOMA	221	1.07	596	1.00	163	1.03	501	1.06
MULTIPLE MYELOMA	71	0.89	239	1.03	91	1.22	236	1.05
DIGESTIVE ORGANS	2618	1.02	7155	0.96	1406	1.04	3901	0.96
STOMACH	510	0.93	1375	0.87	161	0.90	411	0.76
COLON & RECTUM	1299	1.14	3420	1.03	729	1.08	2065	1.02
LIVER (PRIMARY)	264	1.00	733	0.96	92	1.36	177	0.87
TRACHEA, BRONCHUS, LUNG	1049	0.91	3165	0.96	1194	0.98	3713	1.03
BREAST (FEMALE)	662	0.97	2080	1.05	412	0.92	1453	1.09
THYROID	33	1.17	86	1.05	17	1.33	34	0.88
BONES & JOINTS	49	0.93	137	0.90	21	1.14	65	1.17
BLADDER	240	1.08	687	1.07	111	0.88	382	1.01
BRAIN & OTHER C.N.S.	176	0.99	549	1.07	122	0.95	415	1.08
BENIGN & UNSPEC NEOPLASMS	19	1.18	42	0.87	44	1.09	117	0.96

Table 1-C.8

Age at death: all

Quad Cities 1,2 (1972)
Rock Island, IL ; Whiteside, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.12*	1.05	1.04	1.11*
ALL CANCER, EXCL LEUK	1.01	0.98	1.00	1.03***
HODGKIN'S DISEASE	0.88	0.73	0.85	1.02
OTHER LYMPHOMA	1.07	0.97	0.96	1.06
MULTIPLE MYELOMA	0.86	1.16	1.37	1.02
DIGESTIVE ORGANS	1.06*	1.08*	1.02	1.00
STOMACH	1.07	1.18	0.97	0.87*
COLON & RECTUM	1.11**	1.06	0.95	0.99
LIVER (PRIMARY)	1.04	1.56***	1.36*	0.91
TRACHEA, BRONCHUS, LUNG	0.95	0.95	1.08	1.07**
BREAST (FEMALE)	0.92	0.84**	0.95	1.04
THYROID	1.11	1.51	1.14	0.84
BONES & JOINTS	1.03	0.97	1.23	1.30
BLADDER	1.01	0.87	0.81	0.94
BRAIN & OTHER C.N.S.	0.93	0.88	0.96	1.01
BENIGN & UNSPEC NEOPLASMS	1.36	1.14	0.92	1.10

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-C.9

Age at death: under 10

Surry 1,2 (1972)
Isle of Wight, VA ; Surry, VA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	0	0.00	8	0.59	1	1.11	1	0.37
ALL CANCER, EXCL LEUK	2	0.43	17	0.96	1	0.72	4	0.97
HODGKIN'S DISEASE	0	0.00	1	2.67	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	2	0.90	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	1	32.71	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	0	0.00	1	8.28
BLADDER	1	39.73	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	1	0.55	6	0.87	0	0.00	0	0.00
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	3.88	0	0.00	0	0.00

Table 1-C.9

Age at death: under 10

Surry 1,2 (1972)
Isle of Wight, VA ; Surry, VA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.00	3.00	-	0.63
ALL CANCER, EXCL LEUK	0.45	0.74	1.67	1.01
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	0.00	-	-	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	0.00	-	-	0.00
THYROID	-	-	-	-
BONES & JOINTS	-	0.00	-	-
BLADDER	-	-	0.00	-
BRAIN & OTHER C.N.S.	0.63	-	0.00	0.00
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.9

Age at death: 10 to 19

Surry 1,2 (1972)
Isle of Wight, VA ; Surry, VA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4	1.92	8	0.94	1	0.99	2	0.64
ALL CANCER, EXCL LEUK	4	0.89	13	0.70	1	0.49	9	1.44
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	1	1.65	2	0.81	0	0.00	1	1.21
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	4	3.01	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	3	5.05	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	1	2.53	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	2	2.52	1	0.31	1	2.91	1	0.94
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	4	0.95	0	0.00	1	0.65
BENIGN & UNSPEC NEOPLASMS	1	13.34	0	0.00	1	7.47	1	2.37

Table 1-C.9

Age at death: 10 to 19

Surry 1,2 (1972)
Isle of Wight, VA ; Surry, VA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	2.04	1.55	0.52	0.68
ALL CANCER, EXCL LEUK	1.27	0.34	0.55	2.06
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	2.04	0.00	0.00	1.49
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	-	-	-	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	0.00	-	-	0.00
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	8.13	3.10	1.15	3.03
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.00	0.00	-	0.68
BENIGN & UNSPEC NEOPLASMS	-	3.15	0.56	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.9

Age at death: 20 to 39

Surry 1,2 (1972)
Isle of Wight, VA ; Surry, VA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	2	0.71	10	0.96	2	1.13	4	0.80
ALL CANCER, EXCL LEUK	30	1.03	110	1.02	12	0.82	48	1.17
HODGKIN'S DISEASE	2	1.04	8	1.09	0	0.00	2	0.88
OTHER LYMPHOMA	2	1.43	5	0.96	2	2.23	3	1.19
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	1	4.08
DIGESTIVE ORGANS	2	0.35	14	0.67	2	0.78	3	0.41
STOMACH	0	0.00	5	0.99	0	0.00	0	0.00
COLON & RECTUM	1	0.42	4	0.45	0	0.00	1	0.31
LIVER (PRIMARY)	0	0.00	2	0.76	2	5.94	1	1.01
TRACHEA, BRONCHUS, LUNG	1	0.42	7	0.82	2	1.31	4	0.95
BREAST (FEMALE)	5	1.26	15	1.02	3	1.30	9	1.40
THYROID	0	0.00	2	5.64	0	0.00	0	0.00
BONES & JOINTS	1	2.03	4	2.17	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	1	7.77
BRAIN & OTHER C.N.S.	3	1.59	9	1.25	0	0.00	5	1.55
BENIGN & UNSPEC NEOPLASMS	0	0.00	2	4.09	0	0.00	0	0.00

Table 1-C.9

Age at death: 20 to 39

Surry 1,2 (1972)
Isle of Wight, VA ; Surry, VA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.74	1.41	1.59	0.83
ALL CANCER, EXCL LEUK	1.01	0.70	0.80	1.15
HODGKIN'S DISEASE	0.95	0.00	0.00	0.81
OTHER LYMPHOMA	1.49	1.87	1.56	1.24
MULTIPLE MYELOMA	-	0.00	-	-
DIGESTIVE ORGANS	0.52	1.90	2.23	0.61
STOMACH	0.00	-	-	0.00
COLON & RECTUM	0.93	0.00	0.00	0.69
LIVER (PRIMARY)	0.00	5.88	-	1.33
TRACHEA, BRONCHUS, LUNG	0.51	1.38	3.12	1.16
BREAST (FEMALE)	1.24	0.93	1.03	1.37
THYROID	0.00	-	-	0.00
BONES & JOINTS	0.94	-	0.00	0.00
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	1.27	0.00	0.00	1.24
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.9

Age at death: 40 to 59

Surry 1,2 (1972)
Isle of Wight, VA ; Surry, VA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	6	0.90	41	1.57	3	0.74	13	0.98
ALL CANCER, EXCL LEUK	195	0.87	686	0.79	150	0.99	460	0.92
HODGKIN'S DISEASE	3	1.21	7	0.72	0	0.00	2	0.72
OTHER LYMPHOMA	9	1.68	18	0.86	2	0.54	10	0.83
MULTIPLE MYELOMA	4	1.32	9	0.79	3	1.27	7	0.90
DIGESTIVE ORGANS	66	0.99	200	0.78	37	1.01	107	0.89
STOMACH	14	0.90	50	0.84	4	0.74	10	0.56
COLON & RECTUM	23	1.00	71	0.79	14	1.04	44	0.99
LIVER (PRIMARY)	6	0.81	21	0.74	3	1.20	5	0.61
TRACHEA, BRONCHUS, LUNG	38	0.89	113	0.70	51	1.11	145	0.96
BREAST (FEMALE)	23	0.87	92	0.89	12	0.68	65	1.10
THYROID	2	2.76	4	1.41	0	0.00	2	2.06
BONES & JOINTS	0	0.00	5	0.98	0	0.00	3	2.01
BLADDER	2	0.51	6	0.40	3	1.89	10	1.90
BRAIN & OTHER C.N.S.	6	1.03	23	1.00	6	1.48	5	0.37
BENIGN & UNSPEC NEOPLASMS	1	1.68	2	0.95	2	1.52	1	0.23

Table 1-C.9

Age at death: 40 to 59

Surry 1,2 (1972)
Isle of Wight, VA ; Surry, VA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.57	0.76	0.82	0.62
ALL CANCER, EXCL LEUK	1.10	1.08	1.14	1.16*
HODGKIN'S DISEASE	1.68	0.00	0.00	1.00
OTHER LYMPHOMA	1.95	0.65	0.32	0.97
MULTIPLE MYELOMA	1.67	1.41	0.96	1.14
DIGESTIVE ORGANS	1.27	1.13	1.02	1.14
STOMACH	1.07	1.32	0.82	0.67
COLON & RECTUM	1.27	1.05	1.04	1.25
LIVER (PRIMARY)	1.09	1.97	1.48	0.82
TRACHEA, BRONCHUS, LUNG	1.27	1.16	1.25	1.37*
BREAST (FEMALE)	0.98	0.62	0.78	1.24
THYROID	1.96	0.00	0.00	1.46
BONES & JOINTS	0.00	0.00	-	2.05
BLADDER	1.28	0.99	3.71	4.75**
BRAIN & OTHER C.N.S.	1.03	4.00*	1.44	0.37
BENIGN & UNSPEC NEOPLASMS	1.77	6.61	0.90	0.24

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.9

Age at death: 60 plus

Surry 1,2 (1972)
Isle of Wight, VA ; Surry, VA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	13	0.88	55	0.90	18	1.37	48	0.92
ALL CANCER, EXCL LEUK	456	1.00	1655	0.88	414	1.01	1513	0.94
HODGKIN'S DISEASE	1	0.42	13	1.30	0	0.00	6	1.27
OTHER LYMPHOMA	16	1.75	28	0.74	7	0.69	42	1.04
MULTIPLE MYELOMA	10	1.68	28	1.13	8	0.95	34	1.03
DIGESTIVE ORGANS	157	0.88	573	0.77	118	0.94	416	0.84
STOMACH	37	0.82	149	0.79	14	0.71	66	0.85
COLON & RECTUM	55	0.77	214	0.72	56	0.99	193	0.85
LIVER (PRIMARY)	9	0.50	61	0.81	4	0.56	24	0.86
TRACHEA, BRONCHUS, LUNG	62	0.93	261	0.96	119	1.18	373	0.96
BREAST (FEMALE)	30	0.99	112	0.89	18	0.65	101	0.92
THYROID	2	1.15	6	0.83	2	1.95	5	1.22
BONES & JOINTS	1	0.40	15	1.47	1	1.02	2	0.51
BLADDER	16	1.03	37	0.58	13	1.17	34	0.76
BRAIN & OTHER C.N.S.	8	1.93	16	0.94	4	0.60	20	0.78
BENIGN & UNSPEC NEOPLASMS	0	0.00	3	0.79	4	1.32	12	0.99

Table 1-C.9

Age at death: 60 plus

Surry 1,2 (1972)
Isle of Wight, VA ; Surry, VA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.98	1.49	1.56	1.02
ALL CANCER, EXCL LEUK	1.14*	1.07	1.01	1.07
HODGKIN'S DISEASE	0.32	0.00	0.00	0.98
OTHER LYMPHOMA	2.36*	0.66	0.39	1.41
MULTIPLE MYELOMA	1.49	0.92	0.57	0.91
DIGESTIVE ORGANS	1.14	1.12	1.07	1.09
STOMACH	1.04	0.84	0.87	1.08
COLON & RECTUM	1.07	1.16	1.29	1.18
LIVER (PRIMARY)	0.62	0.65	1.12	1.06
TRACHEA, BRONCHUS, LUNG	0.97	1.23	1.27	1.00
BREAST (FEMALE)	1.11	0.71	0.66	1.03
THYROID	1.39	1.60	1.70	1.47
BONES & JOINTS	0.27	2.00	2.55	0.35
BLADDER	1.78	1.54	1.14	1.31
BRAIN & OTHER C.N.S.	2.05	0.77	0.31	0.83
BENIGN & UNSPEC NEOPLASMS	0.00	1.33	-	1.25

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.9

Age at death: all

Surry 1,2 (1972)
Isle of Wight, VA ; Surry, VA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	25	0.83	122	1.02	25	1.20	68	0.89
ALL CANCER, EXCL LEUK	687	0.96	2481	0.86	578	1.00	2034	0.94
HODGKIN'S DISEASE	6	0.82	29	0.99	0	0.00	10	0.98
OTHER LYMPHOMA	28	1.64	55	0.80	11	0.72	56	1.00
MULTIPLE MYELOMA	14	1.53	37	1.01	11	1.01	42	1.02
DIGESTIVE ORGANS	225	0.90	791	0.78	157	0.95	526	0.84
STOMACH	51	0.82	204	0.80	18	0.71	76	0.78
COLON & RECTUM	79	0.81	292	0.74	70	0.98	238	0.87
LIVER (PRIMARY)	15	0.57	85	0.79	9	0.90	30	0.80
TRACHEA, BRONCHUS, LUNG	101	0.91	381	0.86	172	1.16	522	0.96
BREAST (FEMALE)	58	0.96	220	0.90	33	0.69	175	1.00
THYROID	4	1.55	12	1.15	2	1.47	7	1.35
BONES & JOINTS	4	0.77	25	1.19	2	0.96	7	0.95
BLADDER	19	0.97	43	0.54	16	1.25	45	0.90
BRAIN & OTHER C.N.S.	18	1.22	58	1.00	10	0.78	31	0.68
BENIGN & UNSPEC NEOPLASMS	2	1.08	8	1.16	7	1.39	14	0.76

Table 1-C.9

Age at death: all

Surry 1,2 (1972)
Isle of Wight, VA ; Surry, VA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.81	1.35	1.45	0.87
ALL CANCER, EXCL LEUK	1.12*	1.06	1.04	1.09**
HODGKIN'S DISEASE	0.83	0.00	0.00	0.99
OTHER LYMPHOMA	2.05**	0.72	0.44*	1.25
MULTIPLE MYELOMA	1.51	0.99	0.66	1.01
DIGESTIVE ORGANS	1.15	1.13	1.06	1.08
STOMACH	1.03	0.91	0.87	0.98
COLON & RECTUM	1.09	1.13	1.21	1.18
LIVER (PRIMARY)	0.72	1.13	1.58	1.01
TRACHEA, BRONCHUS, LUNG	1.06	1.21*	1.27	1.12
BREAST (FEMALE)	1.07	0.69	0.72	1.11
THYROID	1.35	1.09	0.95	1.17
BONES & JOINTS	0.65	1.01	1.25	0.80
BLADDER	1.80	1.39	1.29	1.67*
BRAIN & OTHER C.N.S.	1.22	1.15	0.64	0.68
BENIGN & UNSPEC NEOPLASMS	0.93	1.83	1.29	0.66

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.10

Age at death: under 10

Turkey Point 3,4 (1972)
Dade, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	126	0.91	155	0.80	37	0.80	59	1.01
ALL CANCER, EXCL LEUK	169	1.12	225	1.06	73	1.09	86	1.03
HODGKIN'S DISEASE	1	0.40	7	2.02	0	0.00	0	0.00
OTHER LYMPHOMA	31	1.55	31	1.11	6	0.90	11	1.32
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	5	0.65	10	0.92	2	0.54	3	0.66
STOMACH	0	0.00	1	1.90	0	0.00	0	0.00
COLON & RECTUM	1	1.15	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	4	0.91	7	1.13	2	0.75	3	0.90
TRACHEA, BRONCHUS, LUNG	0	0.00	2	1.14	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	6	1.12	9	1.21	5	2.43	2	0.77
BLADDER	1	1.20	2	1.69	1	4.79	0	0.00
BRAIN & OTHER C.N.S.	70	1.16	93	1.10	22	0.94	24	0.82
BENIGN & UNSPEC NEOPLASMS	4	1.25	3	0.73	7	0.98	2	0.22

Table 1-C.10

Age at death: under 10

Turkey Point 3,4 (1972)
Dade, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.14	0.79	0.88	1.26
ALL CANCER, EXCL LEUK	1.06	1.06	0.97	0.97
HODGKIN'S DISEASE	0.20	-	0.00	0.00
OTHER LYMPHOMA	1.40	0.68	0.58	1.19
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.71	0.82	0.83	0.72
STOMACH	0.00	-	-	0.00
COLON & RECTUM	-	-	0.00	-
LIVER (PRIMARY)	0.81	0.83	0.82	0.80
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.93	3.16	2.17	0.64
BLADDER	0.71	-	3.99	0.00
BRAIN & OTHER C.N.S.	1.05	1.15	0.81	0.75
BENIGN & UNSPEC NEOPLASMS	1.71	4.45	0.78	0.30

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.10

Age at death: 10 to 19

Turkey Point 3,4 (1972)
Dade, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	64	0.90	86	0.90	57	1.14	57	0.94
ALL CANCER, EXCL LEUK	175	1.26	161	0.86	89	0.95	96	0.85
HODGKIN'S DISEASE	16	1.14	14	0.74	8	1.28	2	0.26
OTHER LYMPHOMA	26	1.29	21	0.78	10	0.77	23	1.45
MULTIPLE MYELOMA	0	0.00	0	0.00	1	13.08	0	0.00
DIGESTIVE ORGANS	11	1.55	10	1.03	3	0.59	3	0.49
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	6	2.17	5	1.31	1	0.55	0	0.00
LIVER (PRIMARY)	4	1.68	4	1.24	2	0.95	2	0.79
TRACHEA, BRONCHUS, LUNG	1	0.65	1	0.47	1	1.13	1	0.93
BREAST (FEMALE)	0	0.00	1	2.34	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	1	4.63
BONES & JOINTS	24	0.94	30	0.88	16	0.96	9	0.44
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	51	1.50	49	1.08	26	1.10	23	0.80
BENIGN & UNSPEC NEOPLASMS	6	2.16	0	0.00	2	0.37	6	0.90

Table 1-C.10

Age at death: 10 to 19

Turkey Point 3,4 (1972)
Dade, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	1.21	1.27	1.04
ALL CANCER, EXCL LEUK	1.47***	1.12	0.75*	0.99
HODGKIN'S DISEASE	1.54	4.92	1.12	0.35
OTHER LYMPHOMA	1.65	0.53	0.60	1.86
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.50	1.20	0.38	0.48
STOMACH	-	-	-	-
COLON & RECTUM	1.66	-	0.25	0.00
LIVER (PRIMARY)	1.35	1.20	0.57	0.64
TRACHEA, BRONCHUS, LUNG	1.38	1.22	1.74	1.98
BREAST (FEMALE)	0.00	-	-	0.00
THYROID	-	0.00	-	-
BONES & JOINTS	1.07	2.18	1.02	0.50
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.39	1.38	0.73	0.74
BENIGN & UNSPEC NEOPLASMS	-	0.41	0.17*	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.10

Age at death: 20 to 39

Turkey Point 3,4 (1972)
Dade, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	133	1.06	156	1.02	108	1.09	122	1.05
ALL CANCER, EXCL LEUK	1237	1.03	1466	1.04	755	0.96	928	1.05
HODGKIN'S DISEASE	100	1.02	91	0.76	52	1.06	62	1.05
OTHER LYMPHOMA	56	0.89	71	0.93	44	0.87	46	0.78
MULTIPLE MYELOMA	1	0.18	5	0.77	3	0.77	1	0.24
DIGESTIVE ORGANS	214	1.03	228	0.93	123	1.00	127	0.95
STOMACH	41	0.92	47	0.89	15	0.69	27	1.16
COLON & RECTUM	91	0.93	96	0.84	58	1.01	55	0.87
LIVER (PRIMARY)	36	1.62	27	1.01	20	1.39	13	0.84
TRACHEA, BRONCHUS, LUNG	113	1.17	149	1.35	81	1.06	119	1.45
BREAST (FEMALE)	184	1.07	190	0.97	123	0.97	138	1.02
THYROID	4	1.02	1	0.21	2	1.02	3	1.36
BONES & JOINTS	19	0.94	20	0.78	11	0.72	13	0.69
BLADDER	3	0.55	8	1.21	1	0.41	4	1.49
BRAIN & OTHER C.N.S.	85	0.88	108	0.94	73	1.04	97	1.18
BENIGN & UNSPEC NEOPLASMS	6	0.82	8	0.98	23	1.28	15	0.73

Table 1-C.10

Age at death: 20 to 39

Turkey Point 3,4 (1972)
Dade, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.04	1.04	1.03	1.03
ALL CANCER, EXCL LEUK	0.99	0.91	0.93	1.01
HODGKIN'S DISEASE	1.34*	1.01	1.04	1.38
OTHER LYMPHOMA	0.96	1.12	0.98	0.84
MULTIPLE MYELOMA	0.23	3.21	4.28	0.31
DIGESTIVE ORGANS	1.11	1.05	0.97	1.02
STOMACH	1.03	0.59	0.75	1.30
COLON & RECTUM	1.11	1.16	1.09	1.04
LIVER (PRIMARY)	1.60	1.65	0.86	0.83
TRACHEA, BRONCHUS, LUNG	0.87	0.73*	0.91	1.07
BREAST (FEMALE)	1.10	0.95	0.91	1.05
THYROID	4.86	0.75	1.00	6.48
BONES & JOINTS	1.21	1.04	0.77	0.88
BLADDER	0.45	0.28	0.75	1.23
BRAIN & OTHER C.N.S.	0.94	0.88	1.18	1.26
BENIGN & UNSPEC NEOPLASMS	0.84	1.75	1.56	0.74

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.10

Age at death: 40 to 59

Turkey Point 3,4 (1972)
Dade, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	307	0.93	350	1.06	241	0.99	213	0.91
ALL CANCER, EXCL LEUK	10830	1.12	11065	1.11	8043	0.98	8848	1.12
HODGKIN'S DISEASE	122	0.95	115	0.89	59	1.10	30	0.58
OTHER LYMPHOMA	329	1.14	268	0.95	244	1.01	212	0.92
MULTIPLE MYELOMA	116	1.05	116	0.99	90	0.84	93	0.89
DIGESTIVE ORGANS	2812	1.08	2737	1.00	1786	0.99	1794	1.02
STOMACH	498	0.99	513	0.92	227	0.93	231	0.97
COLON & RECTUM	1130	1.03	981	0.89	770	0.99	776	1.04
LIVER (PRIMARY)	284	1.08	330	1.17	139	1.31	78	0.75
TRACHEA, BRONCHUS, LUNG	2405	1.26	2550	1.32	2265	0.93	3033	1.29
BREAST (FEMALE)	1423	1.04	1262	0.93	1181	1.05	1086	1.02
THYROID	38	1.21	29	0.90	13	0.76	11	0.67
BONES & JOINTS	60	1.10	58	1.03	31	1.30	30	1.30
BLADDER	176	1.20	182	1.17	104	1.19	90	1.07
BRAIN & OTHER C.N.S.	373	1.09	346	1.04	254	0.91	276	1.04
BENIGN & UNSPEC NEOPLASMS	25	0.86	32	1.14	53	0.78	54	0.82

Table 1-C.10

Age at death: 40 to 59

Turkey Point 3,4 (1972)
Dade, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.88	1.09	1.06	0.86
ALL CANCER, EXCL LEUK	1.01	0.88***	0.88***	1.01
HODGKIN'S DISEASE	1.07	1.90**	1.16	0.65*
OTHER LYMPHOMA	1.20*	1.10	0.89	0.97
MULTIPLE MYELOMA	1.06	0.94	0.80	0.90
DIGESTIVE ORGANS	1.08*	0.97	0.92**	1.02
STOMACH	1.08	0.96	0.94	1.05
COLON & RECTUM	1.16**	0.95	0.96	1.17**
LIVER (PRIMARY)	0.92	1.75***	1.21	0.64***
TRACHEA, BRONCHUS, LUNG	0.95	0.72***	0.74***	0.98
BREAST (FEMALE)	1.12**	1.03	1.01	1.10*
THYROID	1.34	1.13	0.63	0.74
BONES & JOINTS	1.07	1.00	1.18	1.26
BLADDER	1.03	1.11	0.99	0.91
BRAIN & OTHER C.N.S.	1.05	0.88	0.83*	1.00
BENIGN & UNSPEC NEOPLASMS	0.75	0.95	0.91	0.72

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.10

Age at death: 60 plus

Turkey Point 3,4 (1972)
Dade, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	901	0.89	829	0.99	1043	0.83	814	0.94
ALL CANCER, EXCL LEUK	25086	0.97	21732	0.97	31035	0.94	24940	1.05
HODGKIN'S DISEASE	140	0.87	140	1.04	127	1.12	65	0.82
OTHER LYMPHOMA	630	0.96	455	0.86	994	0.99	690	0.99
MULTIPLE MYELOMA	302	0.91	287	1.02	510	0.88	435	1.00
DIGESTIVE ORGANS	9190	0.93	7141	0.82	9882	0.98	6691	0.92
STOMACH	1838	0.90	1382	0.72	1475	1.08	859	0.86
COLON & RECTUM	4119	0.93	3090	0.81	4756	0.94	3179	0.90
LIVER (PRIMARY)	892	0.94	719	0.83	573	1.17	380	1.04
TRACHEA, BRONCHUS, LUNG	4988	1.16	4276	1.24	7449	0.94	7268	1.25
BREAST (FEMALE)	1615	0.85	1420	0.85	2329	0.95	1683	0.93
THYROID	99	0.98	69	0.77	94	1.04	67	1.03
BONES & JOINTS	114	0.84	131	1.08	84	0.98	63	1.05
BLADDER	1026	1.08	877	1.08	1067	1.02	786	1.11
BRAIN & OTHER C.N.S.	431	1.35	260	1.04	698	1.16	489	1.11
BENIGN & UNSPEC NEOPLASMS	73	1.03	44	0.85	264	1.09	135	0.78

Table 1-C.10

Age at death: 60 plus

Turkey Point 3,4 (1972)
Dade, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.90*	0.88**	0.93	0.95
ALL CANCER, EXCL LEUK	1.00	0.90***	0.97**	1.08***
HODGKIN'S DISEASE	0.84	1.37*	1.29*	0.79
OTHER LYMPHOMA	1.12	1.00	1.03	1.15*
MULTIPLE MYELOMA	0.89	0.88*	0.97	0.98
DIGESTIVE ORGANS	1.13***	1.07***	1.05**	1.12***
STOMACH	1.25***	1.26***	1.20***	1.19***
COLON & RECTUM	1.15***	1.04*	1.01	1.11***
LIVER (PRIMARY)	1.13**	1.13	1.24***	1.25***
TRACHEA, BRONCHUS, LUNG	0.94**	0.75***	0.81***	1.01
BREAST (FEMALE)	1.00	1.02	1.12**	1.09*
THYROID	1.27	1.01	1.06	1.34
BONES & JOINTS	0.78	0.93	1.17	0.97
BLADDER	1.00	0.92	0.94	1.03
BRAIN & OTHER C.N.S.	1.30***	1.05	0.86*	1.07
BENIGN & UNSPEC NEOPLASMS	1.21	1.40**	1.06	0.92

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.10

Age at death: all

Turkey Point 3,4 (1972)
Dade, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1531	0.91	1576	0.98	1486	0.88	1265	0.95
ALL CANCER, EXCL LEUK	37497	1.01	34649	1.01	39995	0.95	34898	1.06
HODGKIN'S DISEASE	379	0.94	367	0.90	246	1.10	159	0.80
OTHER LYMPHOMA	1072	1.03	846	0.90	1298	0.99	982	0.97
MULTIPLE MYELOMA	419	0.94	408	1.00	604	0.88	529	0.98
DIGESTIVE ORGANS	12232	0.96	10126	0.86	11796	0.98	8618	0.94
STOMACH	2377	0.92	1943	0.77	1717	1.05	1117	0.88
COLON & RECTUM	5347	0.95	4172	0.83	5585	0.95	4010	0.92
LIVER (PRIMARY)	1220	0.99	1087	0.92	736	1.20	476	0.97
TRACHEA, BRONCHUS, LUNG	7507	1.19	6978	1.27	9796	0.94	10421	1.26
BREAST (FEMALE)	3222	0.94	2873	0.89	3633	0.98	2907	0.96
THYROID	141	1.03	99	0.78	109	0.99	82	0.98
BONES & JOINTS	223	0.92	248	1.01	147	1.02	117	0.94
BLADDER	1206	1.09	1069	1.10	1173	1.03	880	1.11
BRAIN & OTHER C.N.S.	1010	1.19	856	1.03	1073	1.07	909	1.08
BENIGN & UNSPEC NEOPLASMS	114	1.01	87	0.91	349	1.03	212	0.77

Table 1-C.10

Age at death: all

Turkey Point 3,4 (1972)
Dade, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.93	0.93*	0.97	0.97
ALL CANCER, EXCL LEUK	1.00	0.90***	0.94***	1.05***
HODGKIN'S DISEASE	1.04	1.38**	1.17	0.89
OTHER LYMPHOMA	1.14**	1.02	0.96	1.08
MULTIPLE MYELOMA	0.94	0.90	0.94	0.98
DIGESTIVE ORGANS	1.12***	1.04**	1.02	1.09***
STOMACH	1.19***	1.19***	1.14***	1.14***
COLON & RECTUM	1.14***	1.03	1.00	1.11***
LIVER (PRIMARY)	1.08	1.24***	1.21***	1.05
TRACHEA, BRONCHUS, LUNG	0.94***	0.75***	0.79***	0.99
BREAST (FEMALE)	1.06	1.02	1.04	1.08**
THYROID	1.32*	1.01	0.96	1.26
BONES & JOINTS	0.91	1.09	1.11	0.93
BLADDER	0.99	0.93	0.94	1.01
BRAIN & OTHER C.N.S.	1.16**	0.99	0.90*	1.05
BENIGN & UNSPEC NEOPLASMS	1.11	1.34**	1.02	0.85

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.11

Age at death: under 10

Vermont Yankee 1 (1972)
Cheshire, NH ; Franklin, MA ; Windham, VT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	20	0.82	30	0.66	5	0.85	17	1.47
ALL CANCER, EXCL LEUK	20	0.81	41	0.89	8	1.03	14	0.92
HODGKIN'S DISEASE	1	2.55	1	1.37	0	0.00	0	0.00
OTHER LYMPHOMA	3	0.88	3	0.47	1	1.24	3	1.88
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	2	1.58	1	0.42	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	1	1.34	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	1	4.88	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	2	2.17	0	0.00	0	0.00	1	1.96
BLADDER	0	0.00	1	3.69	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	9	0.90	19	1.02	5	1.80	5	0.91
BENIGN & UNSPEC NEOPLASMS	2	4.97	1	1.30	2	2.49	1	0.64

Table 1-C.11

Age at death: under 10

Vermont Yankee 1 (1972)
Cheshire, NH ; Franklin, MA ; Windham, VT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.24	0.58	1.04	2.23*
ALL CANCER, EXCL LEUK	0.91	1.12	1.27	1.03
HODGKIN'S DISEASE	1.86	-	0.00	0.00
OTHER LYMPHOMA	1.87	0.66	1.41	4.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	3.76	-	0.00	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	0.00	-
TRACHEA, BRONCHUS, LUNG	-	-	0.00	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	0.00	0.00	-
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	0.88	1.98	2.00	0.89
BENIGN & UNSPEC NEOPLASMS	3.82	3.89	0.50	0.49

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.11

Age at death: 10 to 19

Vermont Yankee 1 (1972)
Cheshire, NH ; Franklin, MA ; Windham, VT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	19	1.62	29	1.30	1	0.17	21	1.81
ALL CANCER, EXCL LEUK	16	0.72	35	0.83	11	1.06	17	0.82
HODGKIN'S DISEASE	2	0.86	6	1.35	1	1.40	0	0.00
OTHER LYMPHOMA	2	0.61	2	0.32	3	1.99	1	0.33
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	3	1.54	1	2.14	0	0.00
STOMACH	0	0.00	0	0.00	1	45.31	0	0.00
COLON & RECTUM	0	0.00	1	1.39	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	1	1.55	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	1	2.09	0	0.00	2	10.33
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	2	0.48	5	0.64	1	0.52	2	0.53
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	6	1.08	10	0.95	3	1.12	4	0.75
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	1	1.69	0	0.00

Table 1-C.11

Age at death: 10 to 19

Vermont Yankee 1 (1972)
Cheshire, NH ; Franklin, MA ; Windham, VT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.25	0.09**	0.10**	1.39
ALL CANCER, EXCL LEUK	0.87	1.29	1.47	0.99
HODGKIN'S DISEASE	0.64	-	1.63	0.00
OTHER LYMPHOMA	1.91	6.03	3.26	1.03
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	-	-	-	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	0.00	-	-	0.00
TRACHEA, BRONCHUS, LUNG	0.00	0.00	-	4.94
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.75	0.98	1.08	0.83
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.14	1.49	1.04	0.79
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.11

Age at death: 20 to 39

Vermont Yankee 1 (1972)
Cheshire, NH ; Franklin, MA ; Windham, VT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	20	1.23	31	1.06	9	0.82	22	1.07
ALL CANCER, EXCL LEUK	147	1.04	262	1.02	81	1.00	158	1.02
HODGKIN'S DISEASE	27	2.00	31	1.27	7	1.19	11	1.00
OTHER LYMPHOMA	5	0.62	19	1.30	7	1.25	10	0.94
MULTIPLE MYELOMA	3	5.12	2	1.90	1	3.11	0	0.00
DIGESTIVE ORGANS	27	1.14	41	0.96	8	0.71	22	1.01
STOMACH	1	0.21	5	0.58	1	0.56	0	0.00
COLON & RECTUM	20	1.69	21	0.98	5	0.90	13	1.21
LIVER (PRIMARY)	1	0.44	5	1.22	1	0.89	0	0.00
TRACHEA, BRONCHUS, LUNG	8	0.75	19	0.98	5	0.68	15	1.03
BREAST (FEMALE)	13	0.67	38	1.07	10	0.83	30	1.29
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.38	2	0.42	3	1.73	4	1.25
BLADDER	2	3.45	1	0.96	1	4.01	2	4.11
BRAIN & OTHER C.N.S.	14	1.08	21	0.90	9	1.09	10	0.64
BENIGN & UNSPEC NEOPLASMS	1	1.43	2	1.57	5	2.83	2	0.61

Table 1-C.11

Age at death: 20 to 39

Vermont Yankee 1 (1972)
Cheshire, NH ; Franklin, MA ; Windham, VT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.16	0.77	0.67	1.01
ALL CANCER, EXCL LEUK	1.02	0.98	0.96	1.00
HODGKIN'S DISEASE	1.57	1.19	0.60	0.79
OTHER LYMPHOMA	0.48	1.33	2.02	0.72
MULTIPLE MYELOMA	2.69	-	0.61	0.00
DIGESTIVE ORGANS	1.19	0.70	0.62	1.05
STOMACH	0.36	-	2.67	0.00
COLON & RECTUM	1.72	0.74	0.53	1.23
LIVER (PRIMARY)	0.36	-	2.02	0.00
TRACHEA, BRONCHUS, LUNG	0.77	0.66	0.91	1.05
BREAST (FEMALE)	0.63	0.64	1.24	1.21
THYROID	-	-	-	-
BONES & JOINTS	0.90	1.38	4.55	2.98
BLADDER	3.59	0.98	1.16	4.28
BRAIN & OTHER C.N.S.	1.20	1.70	1.01	0.71
BENIGN & UNSPEC NEOPLASMS	0.91	4.64	1.98	0.39

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.11

Age at death: 40 to 59

Vermont Yankee 1 (1972)
Cheshire, NH ; Franklin, MA ; Windham, VT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	33	0.76	79	1.00	19	0.86	36	0.87
ALL CANCER, EXCL LEUK	1208	1.00	2357	1.07	694	0.98	1330	1.00
HODGKIN'S DISEASE	15	0.87	37	1.19	6	1.20	13	1.38
OTHER LYMPHOMA	34	0.90	69	1.01	25	1.10	37	0.86
MULTIPLE MYELOMA	18	1.40	24	1.03	10	1.18	18	1.13
DIGESTIVE ORGANS	334	1.02	633	1.06	150	0.99	279	0.98
STOMACH	54	0.88	121	1.07	15	0.77	24	0.65
COLON & RECTUM	163	1.13	310	1.18	75	1.07	140	1.07
LIVER (PRIMARY)	30	0.90	51	0.84	3	0.37	18	1.18
TRACHEA, BRONCHUS, LUNG	231	0.98	456	1.06	188	0.89	379	0.95
BREAST (FEMALE)	179	1.04	316	1.01	101	1.02	170	0.92
THYROID	3	0.73	11	1.47	3	1.97	3	1.05
BONES & JOINTS	4	0.56	8	0.61	1	0.48	2	0.51
BLADDER	25	1.34	44	1.29	10	1.27	23	1.55
BRAIN & OTHER C.N.S.	45	0.97	85	1.01	29	1.10	57	1.14
BENIGN & UNSPEC NEOPLASMS	1	0.36	8	1.59	11	1.88	9	0.83

Table 1-C.11

Age at death: 40 to 59

Vermont Yankee 1 (1972)
Cheshire, NH ; Franklin, MA ; Windham, VT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.76	0.99	1.13	0.87
ALL CANCER, EXCL LEUK	0.93	0.98	0.98	0.93*
HODGKIN'S DISEASE	0.73	0.87	1.38	1.16
OTHER LYMPHOMA	0.89	1.28	1.22	0.85
MULTIPLE MYELOMA	1.36	1.04	0.84	1.10
DIGESTIVE ORGANS	0.96	1.01	0.97	0.92
STOMACH	0.82	1.18	0.88	0.61*
COLON & RECTUM	0.96	1.00	0.95	0.91
LIVER (PRIMARY)	1.07	0.31	0.41	1.40
TRACHEA, BRONCHUS, LUNG	0.92	0.94	0.91	0.90
BREAST (FEMALE)	1.03	1.11	0.98	0.91
THYROID	0.50	1.88	2.70	0.71
BONES & JOINTS	0.92	0.94	0.86	0.84
BLADDER	1.04	0.82	0.95	1.20
BRAIN & OTHER C.N.S.	0.96	0.96	1.13	1.13
BENIGN & UNSPEC NEOPLASMS	0.23	2.27	5.22	0.52

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.11

Age at death: 60 plus

Vermont Yankee 1 (1972)
Cheshire, NH ; Franklin, MA ; Windham, VT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	149	0.99	292	1.06	118	1.07	192	0.93
ALL CANCER, EXCL LEUK	4002	1.03	7259	1.02	2898	1.02	5462	1.03
HODGKIN'S DISEASE	37	1.54	61	1.40	13	1.29	27	1.43
OTHER LYMPHOMA	94	1.02	186	1.11	79	0.88	172	1.02
MULTIPLE MYELOMA	37	0.86	92	1.17	53	1.12	99	1.11
DIGESTIVE ORGANS	1643	1.05	2731	0.96	894	1.02	1638	1.00
STOMACH	327	0.95	520	0.84	110	0.97	190	0.90
COLON & RECTUM	844	1.20	1384	1.08	496	1.12	889	1.07
LIVER (PRIMARY)	140	0.87	245	0.84	30	0.73	61	0.80
TRACHEA, BRONCHUS, LUNG	500	0.91	1000	0.99	686	1.00	1269	0.99
BREAST (FEMALE)	332	1.09	577	1.05	215	0.97	464	1.11
THYROID	12	0.73	21	0.70	6	0.74	11	0.73
BONES & JOINTS	31	1.39	44	1.08	10	1.34	9	0.64
BLADDER	173	1.16	376	1.39	101	1.12	217	1.29
BRAIN & OTHER C.N.S.	37	0.89	70	0.93	50	0.92	97	0.96
BENIGN & UNSPEC NEOPLASMS	8	1.14	14	1.08	12	0.58	46	1.18

Table 1-C.11

Age at death: 60 plus

Vermont Yankee 1 (1972)
Cheshire, NH ; Franklin, MA ; Windham, VT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.93	1.15	1.08	0.88
ALL CANCER, EXCL LEUK	1.01	0.99	0.99	1.01
HODGKIN'S DISEASE	1.10	0.90	0.84	1.02
OTHER LYMPHOMA	0.92	0.86	0.86	0.92
MULTIPLE MYELOMA	0.74	1.01	1.30	0.95
DIGESTIVE ORGANS	1.09**	1.02	0.97	1.04
STOMACH	1.13	1.08	1.02	1.07
COLON & RECTUM	1.11*	1.05	0.93	0.99
LIVER (PRIMARY)	1.04	0.91	0.84	0.95
TRACHEA, BRONCHUS, LUNG	0.92	1.01	1.10	1.00
BREAST (FEMALE)	1.04	0.87	0.89	1.06
THYROID	1.04	1.01	1.01	1.04
BONES & JOINTS	1.29	2.09	0.96	0.59
BLADDER	0.83	0.87	0.97	0.93
BRAIN & OTHER C.N.S.	0.96	0.96	1.03	1.03
BENIGN & UNSPEC NEOPLASMS	1.06	0.49*	0.51	1.09

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.11

Age at death: all

Vermont Yankee 1 (1972)
Cheshire, NH ; Franklin, MA ; Windham, VT

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	241	0.98	461	1.02	152	0.98	288	0.99
ALL CANCER, EXCL LEUK	5393	1.02	9954	1.03	3692	1.01	6981	1.02
HODGKIN'S DISEASE	82	1.43	136	1.30	27	1.24	51	1.25
OTHER LYMPHOMA	138	0.95	279	1.06	115	0.96	223	0.99
MULTIPLE MYELOMA	58	1.02	118	1.14	64	1.14	117	1.11
DIGESTIVE ORGANS	2006	1.05	3409	0.98	1053	1.02	1939	1.00
STOMACH	382	0.93	646	0.87	127	0.94	214	0.85
COLON & RECTUM	1027	1.19	1716	1.10	576	1.11	1042	1.07
LIVER (PRIMARY)	172	0.87	302	0.84	34	0.67	79	0.83
TRACHEA, BRONCHUS, LUNG	740	0.93	1476	1.01	879	0.97	1665	0.98
BREAST (FEMALE)	524	1.06	931	1.03	326	0.98	664	1.06
THYROID	15	0.71	32	0.83	9	0.92	14	0.76
BONES & JOINTS	40	1.07	59	0.87	15	1.11	18	0.71
BLADDER	200	1.19	422	1.38	112	1.14	242	1.31
BRAIN & OTHER C.N.S.	111	0.95	205	0.96	96	1.02	173	0.97
BENIGN & UNSPEC NEOPLASMS	12	1.07	25	1.21	31	1.04	58	1.04

Table 1-C.11

Age at death: all

Vermont Yankee 1 (1972)
Cheshire, NH ; Franklin, MA ; Windham, VT

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.96	0.99	1.00	0.97
ALL CANCER, EXCL LEUK	0.99	0.99	0.99	0.99
HODGKIN'S DISEASE	1.10	0.99	0.87	0.96
OTHER LYMPHOMA	0.90	0.97	1.01	0.93
MULTIPLE MYELOMA	0.89	1.03	1.12	0.97
DIGESTIVE ORGANS	1.07*	1.02	0.97	1.02
STOMACH	1.07	1.11	1.01	0.98
COLON & RECTUM	1.08*	1.04	0.93	0.97
LIVER (PRIMARY)	1.04	0.81	0.77	0.99
TRACHEA, BRONCHUS, LUNG	0.92*	0.99	1.04	0.97
BREAST (FEMALE)	1.03	0.92	0.92	1.03
THYROID	0.86	1.21	1.30	0.92
BONES & JOINTS	1.23	1.56	1.04	0.82
BLADDER	0.86	0.87	0.96	0.95
BRAIN & OTHER C.N.S.	0.99	1.05	1.07	1.01
BENIGN & UNSPEC NEOPLASMS	0.88	1.00	0.97	0.86

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.12

Age at death: under 10

Zion 1,2 (1972)
Kenosha, WI ; Lake, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	96	1.22	258	1.17	12	0.54	61	0.94
ALL CANCER, EXCL LEUK	86	1.06	243	1.08	30	1.01	90	1.03
HODGKIN'S DISEASE	0	0.00	2	0.58	0	0.00	1	1.70
OTHER LYMPHOMA	13	1.18	33	1.07	2	0.65	8	0.89
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	5	1.22	8	0.71	2	1.28	2	0.44
STOMACH	1	6.24	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	1	0.86	0	0.00	0	0.00
LIVER (PRIMARY)	3	1.22	5	0.73	2	1.67	2	0.57
TRACHEA, BRONCHUS, LUNG	0	0.00	2	1.10	1	3.08	0	0.00
BREAST (FEMALE)	0	0.00	1	3.85	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	3	1.02	9	1.09	0	0.00	2	0.70
BLADDER	0	0.00	1	0.79	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	39	1.20	104	1.15	10	0.94	32	1.03
BENIGN & UNSPEC NEOPLASMS	0	0.00	5	1.13	3	0.97	8	0.90

Table 1-C.12

Age at death: under 10

Zion 1,2 (1972)
Kenosha, WI ; Lake, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.04	0.57	0.44**	0.80
ALL CANCER, EXCL LEUK	0.98	0.98	0.95	0.95
HODGKIN'S DISEASE	0.00	0.00	-	2.93
OTHER LYMPHOMA	1.10	0.73	0.55	0.83
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.72	2.91	1.05	0.62
STOMACH	-	-	0.00	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	1.67	2.93	1.37	0.78
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	0.00	-	-	0.00
THYROID	-	-	-	-
BONES & JOINTS	0.94	0.00	0.00	0.64
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	1.04	0.91	0.78	0.90
BENIGN & UNSPEC NEOPLASMS	0.00	1.08	-	0.80

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.12

Age at death: 10 to 19

Zion 1,2 (1972)
Kenosha, WI ; Lake, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	40	0.97	111	1.11	19	0.80	76	1.20
ALL CANCER, EXCL LEUK	66	0.83	193	1.04	46	1.07	89	0.79
HODGKIN'S DISEASE	6	0.70	20	1.05	0	0.00	6	0.80
OTHER LYMPHOMA	8	0.67	27	0.97	12	1.92	11	0.68
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	1	10.25
DIGESTIVE ORGANS	2	0.53	14	1.67	2	0.97	4	0.78
STOMACH	0	0.00	1	1.78	0	0.00	1	4.07
COLON & RECTUM	0	0.00	4	1.34	2	2.89	1	0.61
LIVER (PRIMARY)	1	0.82	5	1.72	0	0.00	2	0.87
TRACHEA, BRONCHUS, LUNG	2	2.23	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	1	2.80	0	0.00	0	0.00
THYROID	0	0.00	1	2.06	0	0.00	0	0.00
BONES & JOINTS	8	0.53	42	1.21	7	0.89	16	0.78
BLADDER	0	0.00	0	0.00	0	0.00	1	13.74
BRAIN & OTHER C.N.S.	26	1.37	56	1.19	12	1.10	22	0.75
BENIGN & UNSPEC NEOPLASMS	1	0.75	1	0.29	1	0.41	2	0.31

Table 1-C.12

Age at death: 10 to 19

Zion 1,2 (1972)
Kenosha, WI ; Lake, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.87	0.67	0.82	1.08
ALL CANCER, EXCL LEUK	0.80	1.35	1.29	0.76*
HODGKIN'S DISEASE	0.67	0.00	0.00	0.76
OTHER LYMPHOMA	0.69	2.82*	2.87*	0.70
MULTIPLE MYELOMA	-	0.00	-	-
DIGESTIVE ORGANS	0.32	1.24	1.83	0.47
STOMACH	0.00	0.00	-	2.29
COLON & RECTUM	0.00	4.74	-	0.46
LIVER (PRIMARY)	0.48	0.00	0.00	0.51
TRACHEA, BRONCHUS, LUNG	-	-	0.00	-
BREAST (FEMALE)	0.00	-	-	0.00
THYROID	0.00	-	-	0.00
BONES & JOINTS	0.44*	1.14	1.68	0.64
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	1.15	1.47	0.80	0.63
BENIGN & UNSPEC NEOPLASMS	2.59	1.32	0.55	1.07

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.12

Age at death: 20 to 39

Zion 1,2 (1972)
Kenosha, WI ; Lake, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	49	0.89	129	0.92	39	1.00	108	0.97
ALL CANCER, EXCL LEUK	425	0.89	1187	0.95	273	0.90	807	0.92
HODGKIN'S DISEASE	42	0.93	138	1.19	17	0.83	54	0.91
OTHER LYMPHOMA	35	1.27	79	1.12	13	0.64	55	0.94
MULTIPLE MYELOMA	6	2.94	10	1.90	1	0.75	7	1.86
DIGESTIVE ORGANS	59	0.74	199	0.96	33	0.75	122	0.97
STOMACH	11	0.68	34	0.82	10	1.37	20	0.97
COLON & RECTUM	30	0.76	96	0.93	13	0.61	66	1.07
LIVER (PRIMARY)	4	0.51	25	1.26	2	0.43	8	0.63
TRACHEA, BRONCHUS, LUNG	30	0.80	89	0.89	38	1.30	69	0.82
BREAST (FEMALE)	77	1.19	179	1.03	37	0.80	127	0.93
THYROID	0	0.00	7	1.69	0	0.00	5	2.25
BONES & JOINTS	10	1.10	23	1.06	5	0.82	16	0.94
BLADDER	3	1.52	0	0.00	1	1.04	3	1.08
BRAIN & OTHER C.N.S.	29	0.68	119	1.06	23	0.79	75	0.88
BENIGN & UNSPEC NEOPLASMS	0	0.00	8	1.10	7	1.06	17	0.91

Table 1-C.12

Age at death: 20 to 39

Zion 1,2 (1972)
Kenosha, WI ; Lake, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.97	1.03	1.12	1.05
ALL CANCER, EXCL LEUK	0.94	0.98	1.01	0.97
HODGKIN'S DISEASE	0.78	0.91	0.89	0.76
OTHER LYMPHOMA	1.13	0.68	0.50*	0.84
MULTIPLE MYELOMA	1.55	0.40	0.26	0.98
DIGESTIVE ORGANS	0.77	0.77	1.01	1.01
STOMACH	0.83	1.41	2.01	1.18
COLON & RECTUM	0.82	0.57	0.80	1.15
LIVER (PRIMARY)	0.40	0.68	0.84	0.50
TRACHEA, BRONCHUS, LUNG	0.90	1.59*	1.63	0.92
BREAST (FEMALE)	1.16	0.86	0.67	0.90
THYROID	0.00	0.00	-	1.33
BONES & JOINTS	1.04	0.87	0.75	0.89
BLADDER	-	0.96	0.68	-
BRAIN & OTHER C.N.S.	0.64*	0.90	1.16	0.83
BENIGN & UNSPEC NEOPLASMS	0.00	1.16	-	0.83

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.12

Age at death: 40 to 59

Zion 1,2 (1972)
Kenosha, WI ; Lake, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	110	0.92	326	0.99	72	0.95	224	1.04
ALL CANCER, EXCL LEUK	3203	0.97	8466	0.93	2301	0.95	6231	0.91
HODGKIN'S DISEASE	44	0.92	122	0.93	15	0.86	45	0.91
OTHER LYMPHOMA	127	1.22	298	1.04	92	1.20	203	0.92
MULTIPLE MYELOMA	43	1.20	114	1.17	26	0.87	78	0.94
DIGESTIVE ORGANS	871	0.98	2270	0.94	475	0.91	1395	0.95
STOMACH	185	1.10	428	0.94	62	0.89	183	0.95
COLON & RECTUM	395	1.03	1076	1.01	189	0.81	626	0.94
LIVER (PRIMARY)	75	0.85	206	0.85	28	0.95	83	1.03
TRACHEA, BRONCHUS, LUNG	598	0.89	1460	0.80	668	0.91	1701	0.82
BREAST (FEMALE)	484	1.05	1376	1.07	327	1.01	997	1.06
THYROID	14	1.29	26	0.87	4	0.78	9	0.62
BONES & JOINTS	21	1.09	36	0.68	9	1.24	16	0.79
BLADDER	48	0.95	144	1.05	24	0.90	65	0.87
BRAIN & OTHER C.N.S.	133	1.05	379	1.07	83	0.93	239	0.93
BENIGN & UNSPEC NEOPLASMS	12	1.32	22	0.89	14	0.69	35	0.62

Table 1-C.12

Age at death: 40 to 59

Zion 1,2 (1972)
Kenosha, WI ; Lake, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.93	0.91	1.03	1.05
ALL CANCER, EXCL LEUK	1.04	1.04	0.98	0.98
HODGKIN'S DISEASE	0.99	0.95	0.93	0.98
OTHER LYMPHOMA	1.17	1.30*	0.98	0.88
MULTIPLE MYELOMA	1.03	0.93	0.73	0.80
DIGESTIVE ORGANS	1.04	0.96	0.93	1.01
STOMACH	1.17	0.94	0.81	1.01
COLON & RECTUM	1.02	0.86	0.79**	0.93
LIVER (PRIMARY)	1.00	0.92	1.12	1.21
TRACHEA, BRONCHUS, LUNG	1.11*	1.11*	1.02	1.03
BREAST (FEMALE)	0.98	0.95	0.96	0.99
THYROID	1.48	1.26	0.60	0.71
BONES & JOINTS	1.60	1.57	1.14	1.16
BLADDER	0.90	1.03	0.95	0.83
BRAIN & OTHER C.N.S.	0.98	1.00	0.89	0.87
BENIGN & UNSPEC NEOPLASMS	1.48	1.11	0.52	0.70

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.12

Age at death: 60 plus

Zion 1,2 (1972)
Kenosha, WI ; Lake, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	268	0.99	807	1.00	237	1.02	722	1.02
ALL CANCER, EXCL LEUK	7298	1.05	21327	1.02	6597	1.07	19213	1.03
HODGKIN'S DISEASE	47	1.06	111	0.84	21	0.96	55	0.83
OTHER LYMPHOMA	174	1.01	512	1.00	210	1.10	649	1.11
MULTIPLE MYELOMA	64	0.77	240	0.99	102	0.97	302	0.96
DIGESTIVE ORGANS	2877	1.06	8785	1.08	2009	1.07	6101	1.07
STOMACH	673	1.16	2001	1.15	262	1.07	844	1.14
COLON & RECTUM	1288	1.07	4088	1.11	990	1.06	3048	1.06
LIVER (PRIMARY)	263	0.97	846	1.02	99	1.10	276	1.03
TRACHEA, BRONCHUS, LUNG	1154	1.03	2701	0.85	1588	1.04	4083	0.90
BREAST (FEMALE)	595	1.17	1925	1.20	549	1.16	1719	1.17
THYROID	25	0.89	91	1.06	29	1.71	47	0.90
BONES & JOINTS	45	1.16	121	1.04	15	0.94	47	0.97
BLADDER	307	1.19	925	1.19	213	1.13	644	1.12
BRAIN & OTHER C.N.S.	90	1.06	231	0.94	120	1.00	412	1.14
BENIGN & UNSPEC NEOPLASMS	15	1.03	37	0.86	51	1.14	138	1.02

Table 1-C.12

Age at death: 60 plus

Zion 1,2 (1972)
Kenosha, WI ; Lake, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.99	1.00	1.03	1.02
ALL CANCER, EXCL LEUK	1.03	1.04*	1.02	1.01
HODGKIN'S DISEASE	1.26	1.16	0.91	0.99
OTHER LYMPHOMA	1.01	0.99	1.09	1.11
MULTIPLE MYELOMA	0.78	1.01	1.26	0.97
DIGESTIVE ORGANS	0.98	1.00	1.01	0.99
STOMACH	1.01	0.94	0.92	0.99
COLON & RECTUM	0.96	1.00	0.99	0.95
LIVER (PRIMARY)	0.95	1.07	1.13	1.01
TRACHEA, BRONCHUS, LUNG	1.21***	1.16***	1.01	1.06*
BREAST (FEMALE)	0.98	0.99	0.99	0.98
THYROID	0.84	1.90*	1.92*	0.85
BONES & JOINTS	1.12	0.97	0.81	0.93
BLADDER	1.00	1.01	0.95	0.94
BRAIN & OTHER C.N.S.	1.13	0.88	0.94	1.21*
BENIGN & UNSPEC NEOPLASMS	1.20	1.12	1.11	1.19

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.12

Age at death: all

Zion 1,2 (1972)
Kenosha, WI ; Lake, IL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	563	1.00	1631	1.02	379	0.97	1191	1.02
ALL CANCER, EXCL LEUK	11078	1.01	31416	0.99	9247	1.03	26430	1.00
HODGKIN'S DISEASE	139	0.94	393	0.98	53	0.84	161	0.88
OTHER LYMPHOMA	357	1.09	949	1.02	329	1.11	926	1.04
MULTIPLE MYELOMA	113	0.93	364	1.05	129	0.95	388	0.97
DIGESTIVE ORGANS	3814	1.04	11276	1.04	2521	1.03	7624	1.05
STOMACH	870	1.14	2464	1.10	334	1.03	1048	1.10
COLON & RECTUM	1713	1.05	5265	1.09	1194	1.00	3741	1.04
LIVER (PRIMARY)	346	0.93	1087	0.99	131	1.04	371	1.01
TRACHEA, BRONCHUS, LUNG	1784	0.98	4252	0.83	2295	1.00	5853	0.87
BREAST (FEMALE)	1156	1.12	3482	1.14	913	1.08	2843	1.12
THYROID	39	0.96	125	1.04	33	1.44	61	0.88
BONES & JOINTS	87	1.02	231	0.99	36	0.94	97	0.89
BLADDER	358	1.15	1070	1.16	238	1.10	713	1.09
BRAIN & OTHER C.N.S.	317	1.03	889	1.05	248	0.95	780	1.02
BENIGN & UNSPEC NEOPLASMS	28	0.96	73	0.88	76	0.99	200	0.89

Table 1-C.12

Age at death: all

Zion 1,2 (1972)
Kenosha, WI ; Lake, IL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.98	0.95	0.97	1.00
ALL CANCER, EXCL LEUK	1.02	1.03**	1.02	1.01
HODGKIN'S DISEASE	0.96	0.95	0.89	0.90
OTHER LYMPHOMA	1.07	1.07	1.02	1.02
MULTIPLE MYELOMA	0.89	0.98	1.02	0.92
DIGESTIVE ORGANS	1.00	0.98	0.99	1.01
STOMACH	1.04	0.94	0.90	1.00
COLON & RECTUM	0.96	0.96	0.95	0.95*
LIVER (PRIMARY)	0.94	1.03	1.12	1.02
TRACHEA, BRONCHUS, LUNG	1.18***	1.15***	1.02	1.05*
BREAST (FEMALE)	0.98	0.96	0.96	0.98
THYROID	0.92	1.64*	1.50	0.85
BONES & JOINTS	1.03	1.06	0.92	0.90
BLADDER	0.99	1.01	0.96	0.94
BRAIN & OTHER C.N.S.	0.98	0.93	0.92	0.97
BENIGN & UNSPEC NEOPLASMS	1.09	1.11	1.03	1.01

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.13

Age at death: under 10

Browns Ferry 1,2,3 (1973)
Lawrence, AL ; Limestone, AL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	14	1.06	23	0.74	0	0.00	2	0.31
ALL CANCER, EXCL LEUK	11	0.75	32	0.94	1	0.26	8	0.88
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	2	1.03	3	0.66	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	1	0.57	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	1	1.01	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	2	6.96	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	1.91	1	0.82	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	2	0.34	11	0.81	1	0.74	3	0.94
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-C.13

Age at death: under 10

Browns Ferry 1,2,3 (1973)
Lawrence, AL ; Limestone, AL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.43	0.00	0.00	0.42
ALL CANCER, EXCL LEUK	0.80	0.30	0.35	0.94
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	1.56	-	0.00	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.00	-	-	0.00
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	2.33	-	0.00	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.42	0.79	2.18	1.16
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.13

Age at death: 10 to 19

Browns Ferry 1,2,3 (1973)
Lawrence, AL ; Limestone, AL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	5	0.71	12	0.70	2	0.73	7	1.08
ALL CANCER, EXCL LEUK	16	1.16	43	1.29	9	1.79	11	0.93
HODGKIN'S DISEASE	1	0.71	3	0.88	0	0.00	0	0.00
OTHER LYMPHOMA	2	1.01	5	1.04	1	1.42	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	3	3.89	3	1.64	2	7.60	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	3.17	3	4.05	2	21.76	0	0.00
LIVER (PRIMARY)	1	4.17	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	4	1.58	11	1.79	0	0.00	3	1.43
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	3	0.89	9	1.10	2	1.55	2	0.66
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	1	1.57

Table 1-C.13

Age at death: 10 to 19

Browns Ferry 1,2,3 (1973)
Lawrence, AL ; Limestone, AL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.01	0.68	1.03	1.54
ALL CANCER, EXCL LEUK	0.90	1.92	1.54	0.72
HODGKIN'S DISEASE	0.81	-	0.00	0.00
OTHER LYMPHOMA	0.97	-	1.41	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	2.37	-	1.95	0.00
STOMACH	-	-	-	-
COLON & RECTUM	0.78	-	6.86	0.00
LIVER (PRIMARY)	-	-	0.00	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.88	0.00	0.00	0.80
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.81	2.35	1.74	0.60
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.13

Age at death: 20 to 39

Browns Ferry 1,2,3 (1973)
Lawrence, AL ; Limestone, AL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	7	0.83	27	1.22	3	0.68	13	1.17
ALL CANCER, EXCL LEUK	91	1.18	230	1.12	36	1.05	98	1.13
HODGKIN'S DISEASE	3	0.45	16	0.92	2	0.92	3	0.55
OTHER LYMPHOMA	5	1.20	13	1.19	1	0.44	2	0.35
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	11	0.83	42	1.17	5	0.97	22	1.68
STOMACH	4	1.40	8	1.03	0	0.00	2	0.90
COLON & RECTUM	3	0.48	25	1.47	3	1.22	13	2.09
LIVER (PRIMARY)	2	1.39	2	0.52	1	1.75	1	0.69
TRACHEA, BRONCHUS, LUNG	9	1.54	25	1.60	6	1.81	8	0.96
BREAST (FEMALE)	9	0.85	28	0.97	7	1.31	15	1.09
THYROID	0	0.00	1	1.46	0	0.00	0	0.00
BONES & JOINTS	4	2.78	1	0.27	2	2.94	0	0.00
BLADDER	0	0.00	1	1.02	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	9	1.42	21	1.24	4	1.25	14	1.74
BENIGN & UNSPEC NEOPLASMS	0	0.00	2	1.62	3	4.14	2	1.10

Table 1-C.13

Age at death: 20 to 39

Browns Ferry 1,2,3 (1973)
Lawrence, AL ; Limestone, AL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.68	0.58	0.82	0.96
ALL CANCER, EXCL LEUK	1.05	0.93	0.89	1.01
HODGKIN'S DISEASE	0.49	1.67	2.04	0.60
OTHER LYMPHOMA	1.01	1.26	0.37	0.29
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.71	0.58	1.17	1.44
STOMACH	1.36	0.00	0.00	0.87
COLON & RECTUM	0.33	0.58	2.54	1.42
LIVER (PRIMARY)	2.67	2.54	1.26	1.33
TRACHEA, BRONCHUS, LUNG	0.96	1.89	1.18	0.60
BREAST (FEMALE)	0.88	1.20	1.54	1.12
THYROID	0.00	-	-	0.00
BONES & JOINTS	10.30*	-	1.06	0.00
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	1.15	0.72	0.88	1.40
BENIGN & UNSPEC NEOPLASMS	0.00	3.76	-	0.68

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.13

Age at death: 60 plus

Browns Ferry 1,2,3 (1973)
Lawrence, AL ; Limestone, AL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	41	0.89	139	0.89	39	1.09	112	0.97
ALL CANCER, EXCL LEUK	930	0.73	3380	0.79	889	0.88	2753	0.86
HODGKIN'S DISEASE	10	1.36	26	1.04	4	1.25	11	1.08
OTHER LYMPHOMA	9	0.31	88	0.90	21	0.72	96	1.03
MULTIPLE MYELOMA	10	0.61	47	0.89	10	0.54	47	0.80
DIGESTIVE ORGANS	341	0.69	1225	0.73	232	0.76	784	0.81
STOMACH	104	0.91	271	0.71	24	0.57	102	0.76
COLON & RECTUM	130	0.61	472	0.65	106	0.72	370	0.78
LIVER (PRIMARY)	37	0.76	160	0.96	24	1.55	44	0.90
TRACHEA, BRONCHUS, LUNG	104	0.53	472	0.73	239	0.96	699	0.89
BREAST (FEMALE)	58	0.64	222	0.72	56	0.75	191	0.81
THYROID	5	1.00	24	1.42	1	0.38	6	0.71
BONES & JOINTS	9	1.30	31	1.32	3	1.24	12	1.55
BLADDER	35	0.76	83	0.53	24	0.82	72	0.76
BRAIN & OTHER C.N.S.	10	0.72	46	1.00	15	0.81	63	1.08
BENIGN & UNSPEC NEOPLASMS	5	1.45	9	0.82	6	0.85	17	0.76

Table 1-C.13

Age at death: 60 plus

Browns Ferry 1,2,3 (1973)
Lawrence, AL ; Limestone, AL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	1.12	1.22	1.09
ALL CANCER, EXCL LEUK	0.92*	1.02	1.21***	1.09***
HODGKIN'S DISEASE	1.31	1.16	0.92	1.04
OTHER LYMPHOMA	0.34***	0.70	2.32*	1.14
MULTIPLE MYELOMA	0.69	0.68	0.89	0.90
DIGESTIVE ORGANS	0.95	0.94	1.10	1.11*
STOMACH	1.28*	0.75	0.63*	1.07
COLON & RECTUM	0.94	0.92	1.18	1.20**
LIVER (PRIMARY)	0.79	1.72	2.04*	0.94
TRACHEA, BRONCHUS, LUNG	0.73**	1.08	1.81***	1.22***
BREAST (FEMALE)	0.89	0.93	1.17	1.13
THYROID	0.70	0.54	0.38	0.50
BONES & JOINTS	0.98	0.80	0.95	1.17
BLADDER	1.43	1.08	1.08	1.43*
BRAIN & OTHER C.N.S.	0.72	0.75	1.13	1.08
BENIGN & UNSPEC NEOPLASMS	1.77	1.12	0.59	0.93

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.13

Age at death: all

Browns Ferry 1,2,3 (1973)
Lawrence, AL ; Limestone, AL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	91	0.98	255	0.90	55	1.00	165	1.00
ALL CANCER, EXCL LEUK	1497	0.78	5218	0.84	1230	0.91	3738	0.90
HODGKIN'S DISEASE	18	0.79	64	0.94	9	1.17	20	0.91
OTHER LYMPHOMA	24	0.46	154	0.93	31	0.75	122	0.96
MULTIPLE MYELOMA	13	0.56	63	0.86	15	0.66	63	0.90
DIGESTIVE ORGANS	461	0.70	1637	0.75	288	0.76	981	0.84
STOMACH	132	0.89	363	0.75	30	0.58	132	0.82
COLON & RECTUM	162	0.58	615	0.66	135	0.75	461	0.82
LIVER (PRIMARY)	56	0.84	209	0.95	31	1.54	51	0.83
TRACHEA, BRONCHUS, LUNG	189	0.61	780	0.79	343	1.00	1000	0.95
BREAST (FEMALE)	131	0.75	443	0.78	96	0.79	297	0.81
THYROID	5	0.71	31	1.33	1	0.30	6	0.57
BONES & JOINTS	20	1.37	58	1.31	6	1.20	19	1.33
BLADDER	42	0.76	102	0.56	25	0.76	82	0.78
BRAIN & OTHER C.N.S.	46	0.97	168	1.19	36	1.04	113	1.11
BENIGN & UNSPEC NEOPLASMS	7	1.13	22	1.20	15	1.40	25	0.77

Table 1-C.13

Age at death: all

Browns Ferry 1,2,3 (1973)
Lawrence, AL ; Limestone, AL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.09	1.00	1.02	1.11
ALL CANCER, EXCL LEUK	0.93**	1.01	1.17***	1.07***
HODGKIN'S DISEASE	0.84	1.29	1.48	0.97
OTHER LYMPHOMA	0.49***	0.78	1.63	1.03
MULTIPLE MYELOMA	0.65	0.73	1.18	1.05
DIGESTIVE ORGANS	0.93	0.90	1.09	1.12**
STOMACH	1.19	0.71	0.65*	1.09
COLON & RECTUM	0.88	0.91	1.29*	1.24***
LIVER (PRIMARY)	0.88	1.86*	1.83*	0.87
TRACHEA, BRONCHUS, LUNG	0.77**	1.05	1.64***	1.20***
BREAST (FEMALE)	0.96	0.98	1.05	1.04
THYROID	0.53	0.53	0.42	0.43
BONES & JOINTS	1.05	0.90	0.88	1.02
BLADDER	1.36	0.97	1.00	1.39*
BRAIN & OTHER C.N.S.	0.82	0.94	1.07	0.93
BENIGN & UNSPEC NEOPLASMS	0.94	1.82	1.24	0.64

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Age at death: under 10

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	10	1.71	22	1.22	2	1.83	2	0.64
ALL CANCER, EXCL LEUK	3	0.50	23	1.25	3	2.01	4	0.93
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	2	2.42	1	0.39	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	3.29	1	1.07	1	12.77	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	1	5.60	1	1.82	1	16.32	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	0	0.00	0	0.00
BLADDER	0	0.00	1	9.31	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	14	1.89	1	1.87	2	1.30
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Age at death: under 10

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.40	2.86	1.07	0.52
ALL CANCER, EXCL LEUK	0.40	2.16	4.02	0.74
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	6.21	-	0.00	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	3.07	-	3.88	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	3.08	-	2.91	0.00
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	-	-	-
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	0.00*	1.44	-	0.69
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Age at death: 10 to 19

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	2	0.66	4	0.45	0	0.00	2	0.62
ALL CANCER, EXCL LEUK	9	1.58	21	1.25	4	1.99	6	1.05
HODGKIN'S DISEASE	1	1.68	2	1.13	0	0.00	1	2.64
OTHER LYMPHOMA	1	1.19	5	2.00	0	0.00	2	2.39
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	3.78	1	1.27	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	1	3.92	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	3	0.95	2	5.47	2	1.92
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	3	2.11	3	0.71	1	1.91	1	0.68
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-C.14(MORT)

Age at death: 10 to 19

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.47	0.00	0.00	1.38
ALL CANCER, EXCL LEUK	1.26	1.90	1.26	0.84
HODGKIN'S DISEASE	1.49	0.00	0.00	2.34
OTHER LYMPHOMA	0.60	0.00	0.00	1.20
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	2.98	-	0.00	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.00	-	-	0.00
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	2.85	-	2.02
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	2.97	2.81	0.91	0.96
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Age at death: 20 to 39

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3	0.85	11	1.01	1	0.60	6	1.22
ALL CANCER, EXCL LEUK	34	1.10	73	0.77	13	1.01	28	0.76
HODGKIN'S DISEASE	1	0.35	10	1.11	2	2.31	0	0.00
OTHER LYMPHOMA	2	1.14	3	0.55	2	2.29	3	1.18
MULTIPLE MYELOMA	1	7.87	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	3	0.58	18	1.13	1	0.55	7	1.36
STOMACH	0	0.00	1	0.31	0	0.00	1	1.23
COLON & RECTUM	1	0.39	12	1.51	1	1.12	5	1.96
LIVER (PRIMARY)	1	2.03	1	0.66	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	2	0.85	2	0.28	3	2.43	1	0.29
BREAST (FEMALE)	4	0.93	9	0.69	2	0.99	9	1.63
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	2	3.48	3	1.67	0	0.00	0	0.00
BLADDER	1	7.87	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	4	1.42	4	0.46	2	1.56	2	0.54
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	1	1.34

Table 1-C.14(MORT)

Age at death: 20 to 39

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.84	0.49	0.71	1.21
ALL CANCER, EXCL LEUK	1.43	1.33	0.92	0.99
HODGKIN'S DISEASE	0.32	-	6.60	0.00
OTHER LYMPHOMA	2.07	1.94	2.01	2.15
MULTIPLE MYELOMA	-	-	0.00	-
DIGESTIVE ORGANS	0.51	0.40	0.95	1.20
STOMACH	0.00	0.00	-	3.97
COLON & RECTUM	0.26	0.57	2.87	1.30
LIVER (PRIMARY)	3.08	-	0.00	0.00
TRACHEA, BRONCHUS, LUNG	3.04	8.38	2.86	1.04
BREAST (FEMALE)	1.35	0.61	1.06	2.36
THYROID	-	-	-	-
BONES & JOINTS	2.08	-	0.00	0.00
BLADDER	-	-	0.00	-
BRAIN & OTHER C.N.S.	3.09	2.89	1.10	1.17
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Age at death: 40 to 59

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	18	1.74	37	1.18	6	1.48	10	0.84
ALL CANCER, EXCL LEUK	228	0.79	723	0.83	108	0.83	294	0.77
HODGKIN'S DISEASE	2	0.49	9	0.74	1	1.13	2	0.77
OTHER LYMPHOMA	5	0.56	26	0.96	1	0.24	17	1.38
MULTIPLE MYELOMA	4	1.30	14	1.51	1	0.65	6	1.30
DIGESTIVE ORGANS	54	0.69	196	0.83	28	1.02	89	1.09
STOMACH	7	0.47	38	0.84	6	1.69	11	1.05
COLON & RECTUM	24	0.70	98	0.94	14	1.11	38	1.01
LIVER (PRIMARY)	7	0.88	19	0.79	1	0.68	6	1.38
TRACHEA, BRONCHUS, LUNG	39	0.68	113	0.65	25	0.64	69	0.59
BREAST (FEMALE)	40	1.01	101	0.84	15	0.84	33	0.63
THYROID	0	0.00	6	2.04	0	0.00	1	1.23
BONES & JOINTS	5	2.90	3	0.58	1	2.69	0	0.00
BLADDER	5	1.09	7	0.51	0	0.00	5	1.17
BRAIN & OTHER C.N.S.	5	0.45	33	0.99	4	0.83	8	0.56
BENIGN & UNSPEC NEOPLASMS	0	0.00	4	1.76	0	0.00	3	1.03

Table 1-C.14(MORT)

Age at death: 40 to 59

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.47	1.76	0.85	0.71
ALL CANCER, EXCL LEUK	0.95	1.08	1.05	0.93
HODGKIN'S DISEASE	0.66	1.47	2.31	1.04
OTHER LYMPHOMA	0.58	0.17	0.43	1.44
MULTIPLE MYELOMA	0.86	0.50	0.50	0.86
DIGESTIVE ORGANS	0.83	0.94	1.48	1.31*
STOMACH	0.56	1.61	3.60*	1.25
COLON & RECTUM	0.74	1.10	1.59	1.07
LIVER (PRIMARY)	1.11	0.49	0.77	1.75
TRACHEA, BRONCHUS, LUNG	1.05	1.08	0.94	0.91
BREAST (FEMALE)	1.20	1.33	0.83	0.75
THYROID	0.00	0.00	-	0.60
BONES & JOINTS	5.00	-	0.93	0.00
BLADDER	2.14	0.00	0.00	2.29
BRAIN & OTHER C.N.S.	0.45	1.48	1.84	0.57
BENIGN & UNSPEC NEOPLASMS	0.00	0.00	-	0.59

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Age at death: 60 plus

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	34	0.83	147	1.18	27	1.14	75	1.00
ALL CANCER, EXCL LEUK	968	0.93	2790	0.88	490	0.82	1608	0.85
HODGKIN'S DISEASE	8	1.26	17	0.88	3	1.49	5	0.79
OTHER LYMPHOMA	20	0.81	64	0.84	19	1.01	85	1.43
MULTIPLE MYELOMA	7	0.60	42	1.17	10	1.00	32	1.01
DIGESTIVE ORGANS	417	1.01	1189	0.94	158	0.86	536	0.92
STOMACH	91	1.00	289	1.04	14	0.59	75	0.99
COLON & RECTUM	204	1.09	583	1.03	84	0.89	271	0.91
LIVER (PRIMARY)	48	1.16	95	0.76	6	0.70	24	0.89
TRACHEA, BRONCHUS, LUNG	132	0.87	313	0.66	105	0.73	310	0.68
BREAST (FEMALE)	69	0.91	215	0.96	42	0.96	119	0.86
THYROID	5	1.18	10	0.78	4	2.41	2	0.38
BONES & JOINTS	4	0.68	23	1.27	2	1.31	7	1.45
BLADDER	36	0.88	86	0.69	14	0.70	52	0.82
BRAIN & OTHER C.N.S.	8	0.73	37	1.09	12	1.10	37	1.07
BENIGN & UNSPEC NEOPLASMS	1	0.43	2	0.28	7	1.66	11	0.82

Table 1-C.14(MORT)

Age at death: 60 plus

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.70	1.14	1.37	0.85
ALL CANCER, EXCL LEUK	1.06	0.96	0.88*	0.97
HODGKIN'S DISEASE	1.43	1.89	1.18	0.90
OTHER LYMPHOMA	0.96	0.71	1.25	1.70**
MULTIPLE MYELOMA	0.51	0.99	1.67	0.86
DIGESTIVE ORGANS	1.07	0.93	0.85	0.98
STOMACH	0.96	0.60	0.59	0.95
COLON & RECTUM	1.06	0.98	0.82	0.88
LIVER (PRIMARY)	1.53*	0.79	0.60	1.17
TRACHEA, BRONCHUS, LUNG	1.32*	1.07	0.84	1.03
BREAST (FEMALE)	0.95	1.12	1.05	0.90
THYROID	1.51	6.34	2.04	0.49
BONES & JOINTS	0.54	0.90	1.93	1.14
BLADDER	1.28	0.85	0.80	1.19
BRAIN & OTHER C.N.S.	0.67	1.03	1.51	0.98
BENIGN & UNSPEC NEOPLASMS	1.54	2.02	3.86	2.93

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.14(MORT)

Age at death: all

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	67	1.06	221	1.14	36	1.14	95	0.97
ALL CANCER, EXCL LEUK	1242	0.91	3630	0.87	618	0.83	1940	0.84
HODGKIN'S DISEASE	12	0.86	38	0.89	6	1.54	8	0.67
OTHER LYMPHOMA	30	0.81	99	0.87	22	0.91	107	1.42
MULTIPLE MYELOMA	12	0.81	56	1.23	11	0.94	38	1.04
DIGESTIVE ORGANS	476	0.96	1405	0.93	188	0.88	632	0.94
STOMACH	98	0.92	328	1.01	20	0.72	87	1.00
COLON & RECTUM	229	1.02	693	1.02	99	0.92	314	0.93
LIVER (PRIMARY)	57	1.14	117	0.77	8	0.78	30	0.93
TRACHEA, BRONCHUS, LUNG	173	0.81	428	0.66	133	0.72	380	0.66
BREAST (FEMALE)	113	0.94	325	0.91	59	0.93	161	0.82
THYROID	5	0.93	16	0.99	4	2.03	3	0.49
BONES & JOINTS	11	1.16	32	1.10	5	1.94	9	1.14
BLADDER	42	0.92	94	0.67	14	0.66	57	0.84
BRAIN & OTHER C.N.S.	20	0.70	91	1.04	20	1.10	50	0.90
BENIGN & UNSPEC NEOPLASMS	1	0.29	6	0.57	7	1.22	15	0.85

Table 1-C.14(MORT)

Age at death: all

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.93	1.18	1.08	0.85
ALL CANCER, EXCL LEUK	1.05	0.99	0.91	0.97
HODGKIN'S DISEASE	0.97	2.30	1.79	0.75
OTHER LYMPHOMA	0.93	0.64	1.12	1.63***
MULTIPLE MYELOMA	0.66	0.90	1.16	0.85
DIGESTIVE ORGANS	1.03	0.94	0.92	1.01
STOMACH	0.91	0.72	0.78	0.99
COLON & RECTUM	1.00	0.99	0.90	0.91
LIVER (PRIMARY)	1.48*	0.84	0.68	1.21
TRACHEA, BRONCHUS, LUNG	1.23*	1.09	0.89	1.00
BREAST (FEMALE)	1.03	1.13	0.99	0.90
THYROID	0.94	4.14	2.18	0.49
BONES & JOINTS	1.05	1.70	1.67	1.04
BLADDER	1.37	0.79	0.72	1.25
BRAIN & OTHER C.N.S.	0.67	1.22	1.57	0.87
BENIGN & UNSPEC NEOPLASMS	0.51	1.44	4.21	1.49

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.14(INC)

Age at diagnosis: under 10

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	1	1.91	1	0.79	4	3.13	1	0.35
ALL CANCER, EXCL LEUK	1	1.10	2	0.91	2	0.77	6	1.03
HODGKIN'S DISEASE	0	0.00	0	0.00	1	15.42	0	0.00
OTHER LYMPHOMA	0	0.00	0	0.00	0	0.00	0	0.00
MULTIPLE MYELOMA	0	-	0	-	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	0	0.00
STOMACH	0	-	0	-	0	-	0	-
COLON & RECTUM	0	-	0	-	0	-	0	-
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	-	0	-	0	0.00	0	0.00
BREAST (FEMALE)	0	-	0	-	0	-	0	-
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	1	14.65	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	0	0.00	1	1.29	3	1.70

Table 1-C.14(INC)

Age at diagnosis: under 10

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	2.42	8.94	1.64	0.44
ALL CANCER, EXCL LEUK	1.21	0.75	0.70	1.13
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	-	-	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	-	-	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	0.76	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.14(INC)

Age at diagnosis: 10 to 19

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	0	0.00	1	1.20	0	0.00	3	1.55
ALL CANCER, EXCL LEUK	0	0.00	2	0.61	3	0.77	9	1.02
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	1	3.61	0	0.00	3	3.98
MULTIPLE MYELOMA	0	-	0	-	0	-	0	-
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	0	0.00
STOMACH	0	-	0	-	0	-	0	-
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	-	0	-	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	1	2.47	2	2.20
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	0	0.00	1	1.52	1	0.67

Table 1-C.14(INC)

Age at diagnosis: 10 to 19

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.00	0.00	-	1.29
ALL CANCER, EXCL LEUK	0.00	0.75	-	1.67
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	0.00	0.00	-	1.10
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	1.12	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	2.27	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Age at diagnosis: 20 to 39

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	0	0.00	0	0.00	0	0.00	2	0.77
ALL CANCER, EXCL LEUK	8	1.07	16	0.90	25	0.98	58	1.02
HODGKIN'S DISEASE	0	0.00	2	1.45	1	0.56	5	1.25
OTHER LYMPHOMA	0	0.00	0	0.00	2	1.64	5	1.85
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	1.52	1	0.63	3	1.38	5	1.03
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	2.34	1	0.97	3	2.08	5	1.56
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	1	1.46	1	1.46	0	0.00
BREAST (FEMALE)	0	0.00	1	0.44	3	0.66	9	0.91
THYROID	0	0.00	0	0.00	2	1.03	5	1.18
BONES & JOINTS	0	0.00	0	0.00	0	0.00	1	1.97
BLADDER	0	0.00	0	0.00	0	0.00	1	0.99
BRAIN & OTHER C.N.S.	0	0.00	2	2.63	2	1.39	2	0.63

Table 1-C.14(INC)

Age at diagnosis: 20 to 39

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	-	0.00	-	-
ALL CANCER, EXCL LEUK	1.19	0.96	0.92	1.13
HODGKIN'S DISEASE	0.00	0.45	-	0.86
OTHER LYMPHOMA	-	0.89	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	2.41	1.34	0.91	1.63
STOMACH	-	-	-	-
COLON & RECTUM	2.41	1.33	0.89	1.61
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	0.00	0.73	-	2.07
THYROID	-	0.87	-	-
BONES & JOINTS	-	0.00	-	-
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	0.00	2.21	-	0.24

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.14(INC)

Age at diagnosis: 40 to 59

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	3	2.25	1	0.31	4	1.07	9	0.97
ALL CANCER, EXCL LEUK	54	0.94	126	0.90	139	0.91	356	0.94
HODGKIN'S DISEASE	0	0.00	1	0.67	0	0.00	2	0.82
OTHER LYMPHOMA	2	0.99	11	2.22	4	0.70	15	1.06
MULTIPLE MYELOMA	1	2.29	1	0.93	2	1.40	2	0.56
DIGESTIVE ORGANS	18	1.56	21	0.74	30	1.00	80	1.07
STOMACH	0	0.00	4	1.62	5	2.23	4	0.71
COLON & RECTUM	15	1.93	12	0.63	20	0.96	59	1.13
LIVER (PRIMARY)	1	3.52	0	0.00	1	1.82	1	0.72
TRACHEA, BRONCHUS, LUNG	9	1.09	16	0.79	22	0.93	42	0.71
BREAST (FEMALE)	5	0.59	18	0.87	31	1.05	78	1.06
THYROID	1	1.69	3	2.08	0	0.00	4	0.84
BONES & JOINTS	0	0.00	0	0.00	0	0.00	0	0.00
BLADDER	3	1.45	3	0.59	0	0.00	18	1.28
BRAIN & OTHER C.N.S.	0	0.00	3	1.04	1	0.29	3	0.36

Table 1-C.14(INC)

Age at diagnosis: 40 to 59

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	7.26	1.10	0.48	3.13
ALL CANCER, EXCL LEUK	1.04	0.97	0.97	1.04
HODGKIN'S DISEASE	0.00	0.00	-	1.22
OTHER LYMPHOMA	0.45	0.66	0.71	0.48
MULTIPLE MYELOMA	2.46	2.50	0.61	0.60
DIGESTIVE ORGANS	2.11*	0.93	0.64	1.45
STOMACH	0.00	3.14	-	0.44
COLON & RECTUM	3.06**	0.85	0.50	1.79
LIVER (PRIMARY)	-	2.53	0.52	-
TRACHEA, BRONCHUS, LUNG	1.38	1.31	0.85	0.90
BREAST (FEMALE)	0.68	0.99	1.78	1.22
THYROID	0.81	0.00	0.00	0.40
BONES & JOINTS	-	-	-	-
BLADDER	2.46	0.00**	0.00*	2.17
BRAIN & OTHER C.N.S.	0.00	0.81	-	0.35

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.14(INC)

Age at diagnosis: 60 plus

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	11	1.36	18	0.89	17	0.72	64	1.05
ALL CANCER, EXCL LEUK	182	0.95	431	0.90	537	0.86	1476	0.91
HODGKIN'S DISEASE	1	1.00	0	0.00	2	1.07	4	0.84
OTHER LYMPHOMA	0	0.00	11	0.77	12	0.58	49	0.93
MULTIPLE MYELOMA	1	0.35	5	0.70	10	1.07	20	0.83
DIGESTIVE ORGANS	59	1.01	140	0.97	144	0.80	439	0.95
STOMACH	4	0.56	20	1.13	15	0.97	46	1.14
COLON & RECTUM	40	1.06	98	1.05	93	0.74	282	0.87
LIVER (PRIMARY)	1	0.86	2	0.69	3	0.95	14	1.70
TRACHEA, BRONCHUS, LUNG	21	0.87	52	0.87	76	0.85	197	0.85
BREAST (FEMALE)	17	1.05	28	0.71	64	0.90	154	0.85
THYROID	0	0.00	3	1.66	4	1.71	3	0.50
BONES & JOINTS	0	0.00	1	2.15	0	0.00	3	1.66
BLADDER	12	1.06	16	0.57	35	0.93	96	0.98
BRAIN & OTHER C.N.S.	1	0.68	5	1.38	7	1.25	16	1.11

Table 1-C.14(INC)

Age at diagnosis: 60 plus

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.53	0.69	0.53	1.18
ALL CANCER, EXCL LEUK	1.06	0.95	0.91	1.01
HODGKIN'S DISEASE	-	1.27	1.07	-
OTHER LYMPHOMA	0.00*	0.62	-	1.21
MULTIPLE MYELOMA	0.50	1.29	3.06	1.19
DIGESTIVE ORGANS	1.04	0.84	0.79	0.98
STOMACH	0.50	0.85	1.73	1.01
COLON & RECTUM	1.01	0.85	0.70	0.83
LIVER (PRIMARY)	1.25	0.56	1.10	2.46
TRACHEA, BRONCHUS, LUNG	1.00	1.00	0.98	0.98
BREAST (FEMALE)	1.48	1.06	0.86	1.20
THYROID	0.00	3.42	-	0.30
BONES & JOINTS	0.00	0.00	-	0.77
BLADDER	1.86	0.95	0.88	1.72*
BRAIN & OTHER C.N.S.	0.49	1.13	1.84	0.80

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.14(INC)

Age at diagnosis: all

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	15	1.42	21	0.80	25	0.82	79	1.02
ALL CANCER, EXCL LEUK	245	0.94	577	0.90	706	0.87	1905	0.92
HODGKIN'S DISEASE	1	0.40	3	0.50	4	0.72	11	0.84
OTHER LYMPHOMA	2	0.24	23	1.13	18	0.64	72	1.02
MULTIPLE MYELOMA	2	0.60	6	0.73	12	1.10	22	0.79
DIGESTIVE ORGANS	78	1.10	162	0.93	177	0.84	524	0.97
STOMACH	4	0.49	24	1.18	20	1.11	50	1.08
COLON & RECTUM	56	1.22	111	0.98	116	0.78	346	0.91
LIVER (PRIMARY)	2	1.30	2	0.52	4	1.03	15	1.49
TRACHEA, BRONCHUS, LUNG	30	0.92	69	0.85	99	0.87	239	0.82
BREAST (FEMALE)	22	0.86	47	0.75	98	0.93	241	0.91
THYROID	1	0.52	6	1.30	6	0.92	12	0.76
BONES & JOINTS	0	0.00	2	1.63	1	0.58	6	1.44
BLADDER	15	1.11	19	0.56	35	0.80	115	1.02
BRAIN & OTHER C.N.S.	1	0.29	10	1.18	12	1.01	25	0.85

Table 1-C.14(INC)

Age at diagnosis: all

Fort Calhoun 1 (1973)
Harrison, IA ; Washington, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.78	0.80	0.58	1.28
ALL CANCER, EXCL LEUK	1.04	0.95	0.93	1.02
HODGKIN'S DISEASE	0.80	0.86	1.80	1.68
OTHER LYMPHOMA	0.21*	0.63	2.67	0.90
MULTIPLE MYELOMA	0.82	1.39	1.83	1.08
DIGESTIVE ORGANS	1.18	0.87	0.76	1.04
STOMACH	0.42	1.03	2.27	0.92
COLON & RECTUM	1.24	0.86	0.64*	0.93
LIVER (PRIMARY)	2.50	0.69	0.79	2.87
TRACHEA, BRONCHUS, LUNG	1.08	1.06	0.95	0.96
BREAST (FEMALE)	1.15	1.02	1.08	1.21
THYROID	0.40	1.21	1.77	0.58
BONES & JOINTS	0.00	0.40	-	0.88
BLADDER	1.98	0.78	0.72	1.82*
BRAIN & OTHER C.N.S.	0.25	1.19	3.48	0.72

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.15

Age at death: under 10

Oconee 1,2,3 (1973)
Oconee, SC ; Pickens, SC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	15	0.87	18	0.61	2	0.50	5	0.74
ALL CANCER, EXCL LEUK	12	0.66	36	1.14	10	1.81	11	1.17
HODGKIN'S DISEASE	0	0.00	1	1.93	0	0.00	0	0.00
OTHER LYMPHOMA	3	1.22	4	0.95	0	0.00	1	1.05
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	2	2.12	3	1.85	0	0.00	2	4.01
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	9.39	0	0.00	0	0.00	1	24.80
LIVER (PRIMARY)	1	1.84	2	2.13	0	0.00	1	2.63
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	1.50	1	0.88	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	4	0.55	12	0.96	6	3.05	2	0.60
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-C.15

Age at death: under 10

Oconee 1,2,3 (1973)
Oconee, SC ; Pickens, SC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.43	0.68	0.57	1.21
ALL CANCER, EXCL LEUK	0.58	1.55	2.74*	1.03
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	1.28	0.00	0.00	1.11
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.15	0.00	0.00	2.17
STOMACH	-	-	-	-
COLON & RECTUM	-	0.00	0.00	-
LIVER (PRIMARY)	0.86	0.00	0.00	1.23
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.70	-	0.00	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.57	5.08	5.55*	0.63
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.15

Age at death: 10 to 19

Oconee 1,2,3 (1973)
Oconee, SC ; Pickens, SC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	7	0.70	15	0.95	4	0.90	9	1.31
ALL CANCER, EXCL LEUK	24	1.22	29	0.94	6	0.74	10	0.80
HODGKIN'S DISEASE	2	0.96	2	0.63	0	0.00	1	1.20
OTHER LYMPHOMA	6	2.09	4	0.90	3	2.57	2	1.12
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	0.98	2	1.25	1	2.48	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	2.44	2	3.12	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	1	4.21	2	5.48	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	3	0.81	8	1.40	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	7	1.49	7	0.93	2	0.98	5	1.57
BENIGN & UNSPEC NEOPLASMS	0	0.00	2	3.61	0	0.00	1	1.53

Table 1-C.15

Age at death: 10 to 19

Oconee 1,2,3 (1973)
Oconee, SC ; Pickens, SC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.74	0.69	1.29	1.38
ALL CANCER, EXCL LEUK	1.30	0.93	0.61	0.85
HODGKIN'S DISEASE	1.52	0.00	0.00	1.90
OTHER LYMPHOMA	2.32	2.29	1.23	1.24
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.78	-	2.53	0.00
STOMACH	-	-	-	-
COLON & RECTUM	0.78	-	0.00	0.00
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	0.77	-	0.00	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.58	-	0.00	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.60	0.62	0.66	1.69
BENIGN & UNSPEC NEOPLASMS	0.00	0.00	-	0.42

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.15

Age at death: 20 to 39

Oconee 1,2,3 (1973)
Oconee, SC ; Pickens, SC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	15	1.11	28	1.33	9	1.08	8	0.66
ALL CANCER, EXCL LEUK	126	1.10	174	0.93	52	0.86	94	1.01
HODGKIN'S DISEASE	7	0.64	15	0.89	1	0.24	4	0.66
OTHER LYMPHOMA	7	1.05	4	0.38	1	0.24	2	0.32
MULTIPLE MYELOMA	1	2.09	3	3.72	1	3.85	0	0.00
DIGESTIVE ORGANS	23	1.22	25	0.79	8	0.92	17	1.24
STOMACH	5	1.29	6	0.92	0	0.00	3	1.32
COLON & RECTUM	10	1.09	8	0.52	4	0.96	9	1.36
LIVER (PRIMARY)	5	2.55	5	1.54	0	0.00	1	0.69
TRACHEA, BRONCHUS, LUNG	8	0.93	13	0.91	4	0.72	10	1.12
BREAST (FEMALE)	9	0.60	18	0.70	14	1.58	20	1.37
THYROID	0	0.00	2	3.21	1	6.74	0	0.00
BONES & JOINTS	5	2.07	3	0.86	1	0.71	2	1.07
BLADDER	0	0.00	1	1.23	0	0.00	1	3.43
BRAIN & OTHER C.N.S.	14	1.38	15	0.93	2	0.34	5	0.56
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	0.78	0	0.00	0	0.00

Table 1-C.15

Age at death: 20 to 39

Oconee 1,2,3 (1973)
Oconee, SC ; Pickens, SC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.83	1.64	0.97	0.50
ALL CANCER, EXCL LEUK	1.18	0.85	0.78	1.09
HODGKIN'S DISEASE	0.72	0.36	0.38	0.74
OTHER LYMPHOMA	2.76	0.75	0.23	0.84
MULTIPLE MYELOMA	0.56	-	1.84	0.00
DIGESTIVE ORGANS	1.54	0.74	0.75	1.57
STOMACH	1.40	0.00	0.00	1.43
COLON & RECTUM	2.10	0.71	0.88	2.62
LIVER (PRIMARY)	1.66	0.00	0.00	0.45
TRACHEA, BRONCHUS, LUNG	1.02	0.64	0.77	1.23
BREAST (FEMALE)	0.86	1.15	2.63*	1.96
THYROID	0.00	-	-	0.00
BONES & JOINTS	2.41	0.66	0.34	1.24
BLADDER	0.00	0.00	-	2.79
BRAIN & OTHER C.N.S.	1.48	0.61	0.25	0.60
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.15

Age at death: 40 to 59

Oconee 1,2,3 (1973)
Oconee, SC ; Pickens, SC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	17	0.66	41	0.91	18	1.19	33	1.30
ALL CANCER, EXCL LEUK	649	0.87	1172	0.90	473	0.96	786	0.94
HODGKIN'S DISEASE	5	0.50	21	1.19	2	0.62	11	2.03
OTHER LYMPHOMA	16	0.72	24	0.61	22	1.45	18	0.70
MULTIPLE MYELOMA	11	1.30	8	0.55	5	0.81	8	0.76
DIGESTIVE ORGANS	141	0.70	283	0.81	93	0.88	145	0.81
STOMACH	29	0.74	57	0.84	12	0.85	25	1.06
COLON & RECTUM	52	0.61	93	0.62	34	0.72	59	0.74
LIVER (PRIMARY)	20	0.99	31	0.88	10	1.66	4	0.40
TRACHEA, BRONCHUS, LUNG	119	0.80	206	0.80	146	0.99	234	0.93
BREAST (FEMALE)	93	0.89	175	0.94	59	0.88	106	0.91
THYROID	2	0.82	4	0.94	2	1.95	1	0.57
BONES & JOINTS	4	0.94	11	1.48	1	0.72	1	0.42
BLADDER	8	0.70	12	0.61	4	0.76	11	1.24
BRAIN & OTHER C.N.S.	36	1.34	55	1.16	16	0.92	35	1.19
BENIGN & UNSPEC NEOPLASMS	3	1.17	5	1.14	4	1.08	4	0.64

Table 1-C.15

Age at death: 40 to 59

Oconee 1,2,3 (1973)
Oconee, SC ; Pickens, SC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.73	0.92	1.80	1.43
ALL CANCER, EXCL LEUK	0.97	1.02	1.10	1.04
HODGKIN'S DISEASE	0.42	0.31	1.24	1.71
OTHER LYMPHOMA	1.18	2.07*	2.01*	1.15
MULTIPLE MYELOMA	2.36	1.07	0.62	1.38
DIGESTIVE ORGANS	0.86	1.09	1.26	1.00
STOMACH	0.88	0.80	1.15	1.26
COLON & RECTUM	0.98	0.97	1.18	1.19
LIVER (PRIMARY)	1.13	4.15*	1.68	0.45
TRACHEA, BRONCHUS, LUNG	1.00	1.06	1.24	1.16
BREAST (FEMALE)	0.95	0.97	0.99	0.97
THYROID	0.87	3.42	2.38	0.61
BONES & JOINTS	0.64	1.71	0.77	0.28
BLADDER	1.15	0.61	1.09	2.03
BRAIN & OTHER C.N.S.	1.16	0.77	0.69	1.03
BENIGN & UNSPEC NEOPLASMS	1.03	1.69	0.92	0.56

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.15

Age at death: 60 plus

Oconee 1,2,3 (1973)
Oconee, SC ; Pickens, SC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	65	1.05	77	0.68	53	0.96	81	0.82
ALL CANCER, EXCL LEUK	1305	0.78	2352	0.78	1352	0.89	2396	0.89
HODGKIN'S DISEASE	7	0.70	15	0.81	9	1.80	13	1.45
OTHER LYMPHOMA	34	0.86	60	0.82	44	0.96	73	0.89
MULTIPLE MYELOMA	13	0.63	42	1.14	29	1.08	48	1.02
DIGESTIVE ORGANS	458	0.71	844	0.72	398	0.87	625	0.77
STOMACH	84	0.60	175	0.69	45	0.75	63	0.60
COLON & RECTUM	180	0.64	333	0.64	177	0.79	284	0.71
LIVER (PRIMARY)	52	0.82	85	0.74	29	1.29	33	0.84
TRACHEA, BRONCHUS, LUNG	173	0.67	299	0.64	338	0.88	602	0.89
BREAST (FEMALE)	81	0.65	181	0.79	95	0.81	169	0.81
THYROID	2	0.30	5	0.41	4	0.99	5	0.69
BONES & JOINTS	8	0.88	13	0.79	3	0.82	7	1.08
BLADDER	46	0.77	54	0.49	42	0.95	80	1.02
BRAIN & OTHER C.N.S.	21	1.07	26	0.73	39	1.32	54	1.03
BENIGN & UNSPEC NEOPLASMS	2	0.43	9	1.08	10	0.97	16	0.88

Table 1-C.15

Age at death: 60 plus

Oconee 1,2,3 (1973)
Oconee, SC ; Pickens, SC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.54*	1.17	0.91	1.21
ALL CANCER, EXCL LEUK	1.00	1.00	1.14**	1.14***
HODGKIN'S DISEASE	0.86	1.24	2.57	1.79
OTHER LYMPHOMA	1.05	1.08	1.12	1.09
MULTIPLE MYELOMA	0.55	1.06	1.71	0.89
DIGESTIVE ORGANS	0.99	1.13	1.23**	1.07
STOMACH	0.87	1.25	1.25	0.87
COLON & RECTUM	1.00	1.11	1.23*	1.11
LIVER (PRIMARY)	1.11	1.54	1.57	1.14
TRACHEA, BRONCHUS, LUNG	1.05	0.99	1.31**	1.39***
BREAST (FEMALE)	0.82	1.00	1.25	1.03
THYROID	0.73	1.43	3.30	1.68
BONES & JOINTS	1.11	0.76	0.93	1.37
BLADDER	1.57*	0.93	1.23	2.08***
BRAIN & OTHER C.N.S.	1.47	1.28	1.23	1.41
BENIGN & UNSPEC NEOPLASMS	0.40	1.10	2.26	0.81

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-C.15

Age at death: all

Oconee 1,2,3 (1973)
Oconee, SC ; Pickens, SC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	119	0.93	179	0.79	86	0.99	136	0.91
ALL CANCER, EXCL LEUK	2116	0.82	3763	0.82	1893	0.91	3297	0.91
HODGKIN'S DISEASE	21	0.63	54	0.95	12	0.92	29	1.36
OTHER LYMPHOMA	66	0.89	96	0.73	70	1.04	96	0.82
MULTIPLE MYELOMA	25	0.84	53	1.01	35	1.05	56	0.96
DIGESTIVE ORGANS	625	0.72	1157	0.74	500	0.88	789	0.79
STOMACH	118	0.64	238	0.73	57	0.75	91	0.69
COLON & RECTUM	244	0.65	436	0.64	215	0.78	353	0.73
LIVER (PRIMARY)	78	0.91	123	0.79	39	1.31	39	0.75
TRACHEA, BRONCHUS, LUNG	301	0.72	520	0.70	488	0.91	846	0.90
BREAST (FEMALE)	183	0.75	374	0.85	168	0.87	295	0.87
THYROID	4	0.42	11	0.64	7	1.34	6	0.65
BONES & JOINTS	21	1.05	36	1.05	5	0.62	10	0.75
BLADDER	54	0.75	67	0.51	46	0.93	92	1.05
BRAIN & OTHER C.N.S.	82	1.19	115	0.96	65	1.14	101	1.03
BENIGN & UNSPEC NEOPLASMS	5	0.57	17	1.12	14	0.86	21	0.75

Table 1-C.15

Age at death: all

Oconee 1,2,3 (1973)
Oconee, SC ; Pickens, SC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.18	1.09	1.06	1.15
ALL CANCER, EXCL LEUK	1.00	1.00	1.11**	1.11***
HODGKIN'S DISEASE	0.66	0.68	1.46	1.43
OTHER LYMPHOMA	1.22	1.27	1.17	1.12
MULTIPLE MYELOMA	0.83	1.09	1.25	0.95
DIGESTIVE ORGANS	0.97	1.11	1.22**	1.07
STOMACH	0.88	1.09	1.17	0.95
COLON & RECTUM	1.02	1.07	1.20*	1.14
LIVER (PRIMARY)	1.15	1.75*	1.44	0.95
TRACHEA, BRONCHUS, LUNG	1.03	1.01	1.26**	1.29***
BREAST (FEMALE)	0.88	1.00	1.16	1.02
THYROID	0.66	2.06	3.19	1.02
BONES & JOINTS	1.00	0.83	0.59	0.71
BLADDER	1.47*	0.89	1.24	2.06***
BRAIN & OTHER C.N.S.	1.24	1.11	0.96	1.07
BENIGN & UNSPEC NEOPLASMS	0.51	1.15	1.51	0.67

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.16

Age at death: under 10

Prairie Island 1,2 (1973)
Goodhue, MN ; Pierce, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	10	0.87	28	0.85	2	0.83	8	1.17
ALL CANCER, EXCL LEUK	11	0.94	43	1.28	4	1.20	8	0.85
HODGKIN'S DISEASE	1	5.40	1	1.88	0	0.00	0	0.00
OTHER LYMPHOMA	2	1.24	6	1.30	0	0.00	1	1.05
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	2	1.16	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	2	1.96	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	4	0.85	17	1.26	3	2.54	4	1.19
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	1	1.12

Table 1-C.16

Age at death: under 10

Prairie Island 1,2 (1973)
Goodhue, MN ; Pierce, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.02	0.71	0.95	1.38
ALL CANCER, EXCL LEUK	0.73	1.41	1.28	0.66
HODGKIN'S DISEASE	2.87	-	0.00	0.00
OTHER LYMPHOMA	0.95	0.00	0.00	0.81
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.00	-	-	0.00
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	-	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.67	2.13	2.99	0.94
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-C.16

Age at death: 10 to 19

Prairie Island 1,2 (1973)
Goodhue, MN ; Pierce, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8	1.34	14	0.84	4	1.53	11	1.55
ALL CANCER, EXCL LEUK	7	0.62	31	0.98	3	0.64	14	1.10
HODGKIN'S DISEASE	1	0.84	1	0.30	1	3.13	0	0.00
OTHER LYMPHOMA	1	0.60	5	1.07	0	0.00	2	1.09
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	1	0.68	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	3	1.41	10	1.68	1	1.16	4	1.72
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	6	0.76	0	0.00	0	0.00
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	1.73	0	0.00	0	0.00

Table 1-C.16

Age at death: 10 to 19

Prairie Island 1,2 (1973)
Goodhue, MN ; Pierce, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.60	0.99	1.14	1.85
ALL CANCER, EXCL LEUK	0.63	0.58	1.03	1.12
HODGKIN'S DISEASE	2.80	-	3.73	0.00
OTHER LYMPHOMA	0.56	0.00	0.00	1.02
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.84	0.67	0.82	1.02
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.00	-	-	0.00
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.16

Age at death: 20 to 39

Prairie Island 1,2 (1973)
Goodhue, MN ; Pierce, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8	1.17	23	1.17	4	0.97	7	0.60
ALL CANCER, EXCL LEUK	52	0.89	152	0.91	22	0.74	65	0.78
HODGKIN'S DISEASE	7	1.24	21	1.29	1	0.47	5	0.84
OTHER LYMPHOMA	0	0.00	6	0.61	4	1.91	6	1.02
MULTIPLE MYELOMA	0	0.00	2	2.95	1	8.41	0	0.00
DIGESTIVE ORGANS	8	0.83	28	1.02	2	0.49	9	0.78
STOMACH	3	1.56	3	0.54	0	0.00	2	1.11
COLON & RECTUM	3	0.62	13	0.94	1	0.49	2	0.35
LIVER (PRIMARY)	2	2.17	5	1.88	1	2.39	0	0.00
TRACHEA, BRONCHUS, LUNG	2	0.45	4	0.32	0	0.00	6	0.80
BREAST (FEMALE)	4	0.52	24	1.08	4	0.92	10	0.83
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	2	1.75	1	0.30	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	7	1.30	14	0.90	4	1.32	10	1.17
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	0.92	0	0.00	1	0.59

Table 1-C.16

Age at death: 20 to 39

Prairie Island 1,2 (1973)
Goodhue, MN ; Pierce, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	1.62	0.83	0.51
ALL CANCER, EXCL LEUK	0.98	0.95	0.83	0.86
HODGKIN'S DISEASE	0.96	0.56	0.38	0.65
OTHER LYMPHOMA	0.00	1.87	-	1.67
MULTIPLE MYELOMA	0.00	-	-	0.00
DIGESTIVE ORGANS	0.81	0.63	0.59	0.76
STOMACH	2.89	0.00	0.00	2.06
COLON & RECTUM	0.66	1.40	0.79	0.37
LIVER (PRIMARY)	1.15	-	1.10	0.00
TRACHEA, BRONCHUS, LUNG	1.41	0.00	0.00	2.50
BREAST (FEMALE)	0.48	1.11	1.77	0.77
THYROID	-	-	-	-
BONES & JOINTS	5.83	-	0.00	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.44	1.13	1.02	1.30
BENIGN & UNSPEC NEOPLASMS	0.00	0.00	-	0.64

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.16

Age at death: 40 to 59

Prairie Island 1,2 (1973)
Goodhue, MN ; Pierce, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	20	1.06	68	1.29	13	1.69	15	0.70
ALL CANCER, EXCL LEUK	417	0.80	1137	0.77	182	0.74	579	0.85
HODGKIN'S DISEASE	5	0.68	22	1.06	1	0.60	4	0.86
OTHER LYMPHOMA	13	0.80	32	0.70	7	0.88	24	1.09
MULTIPLE MYELOMA	3	0.53	8	0.51	0	0.00	7	0.85
DIGESTIVE ORGANS	131	0.92	338	0.85	44	0.85	146	1.01
STOMACH	23	0.85	74	0.98	6	0.89	13	0.69
COLON & RECTUM	66	1.05	154	0.88	21	0.88	81	1.21
LIVER (PRIMARY)	14	0.97	27	0.67	3	1.08	2	0.26
TRACHEA, BRONCHUS, LUNG	56	0.53	135	0.46	49	0.66	140	0.67
BREAST (FEMALE)	68	0.95	190	0.94	26	0.78	87	0.93
THYROID	3	1.70	8	1.61	1	1.92	0	0.00
BONES & JOINTS	2	0.64	1	0.11	1	1.42	4	2.04
BLADDER	7	0.84	15	0.64	1	0.37	3	0.40
BRAIN & OTHER C.N.S.	23	1.14	55	0.97	8	0.87	30	1.17
BENIGN & UNSPEC NEOPLASMS	1	0.70	2	0.50	2	1.08	2	0.39

Table 1-C.16

Age at death: 40 to 59

Prairie Island 1,2 (1973)
Goodhue, MN ; Pierce, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.82	2.41*	1.59	0.54*
ALL CANCER, EXCL LEUK	1.04	0.87	0.93	1.10
HODGKIN'S DISEASE	0.64	0.70	0.88	0.81
OTHER LYMPHOMA	1.14	0.81	1.10	1.56
MULTIPLE MYELOMA	1.04	0.00	0.00	1.67
DIGESTIVE ORGANS	1.08	0.84	0.92	1.19
STOMACH	0.87	1.29	1.05	0.70
COLON & RECTUM	1.19	0.73	0.84	1.38*
LIVER (PRIMARY)	1.45	4.15	1.11	0.39
TRACHEA, BRONCHUS, LUNG	1.15	0.99	1.25	1.46**
BREAST (FEMALE)	1.01	0.84	0.82	0.99
THYROID	1.06	-	1.13	0.00
BONES & JOINTS	5.82	0.70	2.22	18.55**
BLADDER	1.31	0.93	0.44	0.63
BRAIN & OTHER C.N.S.	1.18	0.74	0.76	1.21
BENIGN & UNSPEC NEOPLASMS	1.40	2.77	1.54	0.78

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.16

Age at death: 60 plus

Prairie Island 1,2 (1973)
Goodhue, MN ; Pierce, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	80	1.08	230	1.17	50	1.07	157	1.23
ALL CANCER, EXCL LEUK	1652	0.87	4493	0.90	998	0.85	2900	0.89
HODGKIN'S DISEASE	11	0.95	35	1.13	7	1.78	19	1.74
OTHER LYMPHOMA	58	1.28	128	1.06	45	1.22	125	1.23
MULTIPLE MYELOMA	23	1.08	80	1.40	26	1.32	53	0.97
DIGESTIVE ORGANS	681	0.91	1909	0.97	292	0.81	968	0.97
STOMACH	179	1.09	516	1.20	36	0.76	150	1.16
COLON & RECTUM	277	0.82	798	0.90	155	0.84	459	0.91
LIVER (PRIMARY)	64	0.87	179	0.92	8	0.48	37	0.80
TRACHEA, BRONCHUS, LUNG	119	0.42	396	0.51	163	0.57	513	0.65
BREAST (FEMALE)	139	1.05	363	1.05	95	1.11	238	1.03
THYROID	11	1.46	21	1.06	1	0.31	12	1.35
BONES & JOINTS	8	0.75	21	0.74	0	0.00	10	1.21
BLADDER	61	0.82	140	0.71	43	1.09	98	0.90
BRAIN & OTHER C.N.S.	30	1.47	47	0.84	23	1.07	60	1.00
BENIGN & UNSPEC NEOPLASMS	2	0.46	7	0.58	8	0.97	18	0.79

Table 1-C.16

Age at death: 60 plus

Prairie Island 1,2 (1973)
Goodhue, MN ; Pierce, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.92	0.87	0.99	1.05
ALL CANCER, EXCL LEUK	0.97	0.96	0.98	0.99
HODGKIN'S DISEASE	0.84	1.02	1.87	1.54
OTHER LYMPHOMA	1.21	0.99	0.95	1.16
MULTIPLE MYELOMA	0.77	1.36	1.22	0.69*
DIGESTIVE ORGANS	0.94	0.84**	0.89	1.00
STOMACH	0.91	0.66*	0.70	0.97
COLON & RECTUM	0.91	0.92	1.02	1.01
LIVER (PRIMARY)	0.95	0.60	0.55	0.87
TRACHEA, BRONCHUS, LUNG	0.82	0.88	1.36*	1.27***
BREAST (FEMALE)	1.00	1.08	1.06	0.98
THYROID	1.38	0.23	0.21	1.27
BONES & JOINTS	1.01	0.00	0.00	1.64
BLADDER	1.15	1.21	1.33	1.27
BRAIN & OTHER C.N.S.	1.75*	1.07	0.73	1.19
BENIGN & UNSPEC NEOPLASMS	0.79	1.23	2.11	1.36

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.16

Age at death: all

Prairie Island 1,2 (1973)
Goodhue, MN ; Pierce, WI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	126	1.07	363	1.14	73	1.15	198	1.13
ALL CANCER, EXCL LEUK	2139	0.86	5856	0.87	1209	0.83	3566	0.88
HODGKIN'S DISEASE	25	0.96	80	1.12	10	1.24	28	1.25
OTHER LYMPHOMA	74	1.09	177	0.95	56	1.17	158	1.19
MULTIPLE MYELOMA	26	0.96	90	1.22	27	1.18	60	0.95
DIGESTIVE ORGANS	820	0.91	2278	0.95	338	0.81	1123	0.97
STOMACH	205	1.06	593	1.16	42	0.77	165	1.10
COLON & RECTUM	346	0.86	965	0.90	177	0.84	542	0.94
LIVER (PRIMARY)	80	0.89	213	0.89	12	0.59	39	0.70
TRACHEA, BRONCHUS, LUNG	177	0.45	535	0.50	212	0.59	659	0.65
BREAST (FEMALE)	211	1.00	577	1.01	125	1.02	335	0.99
THYROID	14	1.47	29	1.14	2	0.52	12	1.14
BONES & JOINTS	15	0.85	33	0.69	2	0.37	18	1.22
BLADDER	68	0.82	155	0.70	44	1.04	101	0.87
BRAIN & OTHER C.N.S.	64	1.20	139	0.93	38	1.05	104	1.03
BENIGN & UNSPEC NEOPLASMS	3	0.45	11	0.60	10	0.89	22	0.71

Table 1-C.16

Age at death: all

Prairie Island 1,2 (1973)
Goodhue, MN ; Pierce, WI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.94	1.02	1.07	0.99
ALL CANCER, EXCL LEUK	0.99	0.94	0.97	1.01
HODGKIN'S DISEASE	0.86	0.99	1.29	1.12
OTHER LYMPHOMA	1.15	0.98	1.07	1.25*
MULTIPLE MYELOMA	0.79	1.24	1.23	0.78
DIGESTIVE ORGANS	0.96	0.84**	0.89	1.02
STOMACH	0.91	0.70*	0.73	0.95
COLON & RECTUM	0.96	0.89	0.98	1.04
LIVER (PRIMARY)	1.00	0.84	0.66	0.79
TRACHEA, BRONCHUS, LUNG	0.90	0.91	1.31*	1.30***
BREAST (FEMALE)	0.99	1.03	1.02	0.98
THYROID	1.29	0.46	0.35	1.00
BONES & JOINTS	1.23	0.30	0.44	1.77
BLADDER	1.17	1.20	1.27	1.24
BRAIN & OTHER C.N.S.	1.29	1.02	0.88	1.11
BENIGN & UNSPEC NEOPLASMS	0.75	1.25	1.98	1.18

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.17

Age at death: under 10

Arkansas 1,2 (1974)
Pope, AR

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	6	1.30	9	0.72	2	1.77	3	1.00
ALL CANCER, EXCL LEUK	2	0.42	16	1.22	2	1.23	1	0.23
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	1	0.56	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	2	2.99	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	1	13.69	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	1	2.55	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	1	2.06	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	2	1.06	7	1.34	1	1.74	0	0.00
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-C.17

Age at death: under 10

Arkansas 1,2 (1974)
Pope, AR

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.81	1.77	1.36	1.39
ALL CANCER, EXCL LEUK	0.34	5.35	2.93	0.19
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	0.00	-	-	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	-	-	-	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	0.00	-	-	0.00
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	-	-	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.79	-	1.64	0.00
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.17

Age at death: 10 to 19

Arkansas 1,2 (1974)
Pope, AR

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8	2.91	7	0.92	1	0.83	4	1.21
ALL CANCER, EXCL LEUK	4	0.75	8	0.54	0	0.00	4	0.67
HODGKIN'S DISEASE	1	1.77	1	0.65	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	1	0.47	0	0.00	2	2.35
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	1	1.38	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	1	3.58	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.99	4	1.45	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	0	0.00	0	0.00	2	1.32
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-C.17

Age at death: 10 to 19

Arkansas 1,2 (1974)
Pope, AR

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	3.16*	0.69	0.29	1.32
ALL CANCER, EXCL LEUK	1.39	0.00	0.00	1.24
HODGKIN'S DISEASE	2.72	-	0.00	0.00
OTHER LYMPHOMA	0.00	0.00	-	5.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	-	-	-	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.68	-	0.00	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	-	0.00	-	-
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-C.17

Age at death: 20 to 39

Arkansas 1,2 (1974)
Pope, AR

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	2	0.57	6	0.67	2	0.94	1	0.17
ALL CANCER, EXCL LEUK	32	1.10	79	1.03	22	1.40	56	1.32
HODGKIN'S DISEASE	1	0.35	7	0.97	1	0.97	5	1.81
OTHER LYMPHOMA	3	1.75	5	1.14	2	1.84	4	1.36
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	1	5.52
DIGESTIVE ORGANS	4	0.86	16	1.27	4	1.82	7	1.16
STOMACH	0	0.00	3	1.18	1	2.87	0	0.00
COLON & RECTUM	0	0.00	10	1.60	2	1.85	3	1.02
LIVER (PRIMARY)	2	4.35	0	0.00	0	0.00	1	1.58
TRACHEA, BRONCHUS, LUNG	3	1.37	3	0.51	3	2.07	4	1.01
BREAST (FEMALE)	3	0.78	13	1.22	4	1.67	8	1.22
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	1	0.66	1	2.94	1	1.09
BLADDER	1	8.73	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	1	0.37	6	0.87	4	2.57	5	1.19
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	1	3.53	1	1.30

Table 1-C.17

Age at death: 20 to 39

Arkansas 1,2 (1974)
Pope, AR

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.85	5.53	1.65	0.25
ALL CANCER, EXCL LEUK	1.07	1.06	1.27	1.28
HODGKIN'S DISEASE	0.36	0.54	2.77	1.87
OTHER LYMPHOMA	1.54	1.35	1.05	1.19
MULTIPLE MYELOMA	-	0.00	-	-
DIGESTIVE ORGANS	0.68	1.57	2.12	0.91
STOMACH	0.00	-	-	0.00
COLON & RECTUM	0.00	1.81	-	0.64
LIVER (PRIMARY)	-	0.00	0.00	-
TRACHEA, BRONCHUS, LUNG	2.69	2.05	1.51	1.98
BREAST (FEMALE)	0.64	1.37	2.14	1.00
THYROID	-	-	-	-
BONES & JOINTS	0.00	2.70	-	1.65
BLADDER	-	-	0.00	-
BRAIN & OTHER C.N.S.	0.43	2.16	6.95	1.37
BENIGN & UNSPEC NEOPLASMS	-	2.72	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.17

Age at death: 40 to 59

Arkansas 1,2 (1974)
Pope, AR

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	12	1.45	16	0.68	6	1.48	10	0.87
ALL CANCER, EXCL LEUK	221	0.93	591	0.88	121	0.93	371	1.00
HODGKIN'S DISEASE	3	0.94	9	1.00	0	0.00	4	1.74
OTHER LYMPHOMA	5	0.69	11	0.54	2	0.48	15	1.29
MULTIPLE MYELOMA	2	0.78	8	1.08	3	1.91	5	1.10
DIGESTIVE ORGANS	50	0.79	134	0.74	19	0.70	65	0.83
STOMACH	23	1.96	26	0.76	2	0.57	12	1.19
COLON & RECTUM	14	0.51	50	0.64	7	0.56	24	0.68
LIVER (PRIMARY)	3	0.49	14	0.78	0	0.00	7	1.63
TRACHEA, BRONCHUS, LUNG	43	0.90	116	0.86	52	1.31	123	1.09
BREAST (FEMALE)	30	0.89	74	0.78	15	0.83	32	0.62
THYROID	1	1.30	2	0.90	0	0.00	2	2.60
BONES & JOINTS	1	0.75	4	1.04	0	0.00	0	0.00
BLADDER	0	0.00	7	0.67	1	0.73	1	0.25
BRAIN & OTHER C.N.S.	8	0.90	27	1.08	0	0.00	22	1.65
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	1	1.15	1	0.41

Table 1-C.17

Age at death: 40 to 59

Arkansas 1,2 (1974)
Pope, AR

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	2.13	1.70	1.02	1.28
ALL CANCER, EXCL LEUK	1.06	0.93	1.00	1.14*
HODGKIN'S DISEASE	0.94	0.00	0.00	1.74
OTHER LYMPHOMA	1.28	0.37	0.70	2.39*
MULTIPLE MYELOMA	0.72	1.74	2.45	1.02
DIGESTIVE ORGANS	1.07	0.84	0.89	1.12
STOMACH	2.58**	0.48	0.29	1.57
COLON & RECTUM	0.80	0.82	1.10	1.06
LIVER (PRIMARY)	0.63	0.00	0.00	2.09
TRACHEA, BRONCHUS, LUNG	1.05	1.20	1.46	1.27
BREAST (FEMALE)	1.14	1.34	0.93	0.79
THYROID	1.44	0.00	0.00	2.89
BONES & JOINTS	0.72	-	0.00	0.00
BLADDER	0.00	2.92	-	0.37
BRAIN & OTHER C.N.S.	0.83	0.00**	0.00	1.53
BENIGN & UNSPEC NEOPLASMS	-	2.80	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.17

Age at death: 60 plus

Arkansas 1,2 (1974)
Pope, AR

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	25	0.88	87	1.04	17	0.84	66	1.13
ALL CANCER, EXCL LEUK	613	0.84	1660	0.77	443	0.84	1431	0.93
HODGKIN'S DISEASE	3	0.68	12	0.92	1	0.59	9	1.84
OTHER LYMPHOMA	12	0.67	43	0.81	14	0.84	47	0.98
MULTIPLE MYELOMA	7	0.80	31	1.18	8	0.88	23	0.86
DIGESTIVE ORGANS	223	0.79	538	0.65	128	0.80	353	0.76
STOMACH	67	1.12	120	0.67	20	0.98	51	0.85
COLON & RECTUM	86	0.68	220	0.59	61	0.76	167	0.72
LIVER (PRIMARY)	17	0.64	53	0.67	6	0.80	20	0.90
TRACHEA, BRONCHUS, LUNG	95	0.83	278	0.80	138	1.04	411	1.05
BREAST (FEMALE)	40	0.77	85	0.56	26	0.66	97	0.86
THYROID	2	0.70	7	0.83	0	0.00	4	0.98
BONES & JOINTS	3	0.76	8	0.68	1	0.81	4	1.11
BLADDER	19	0.69	63	0.77	9	0.54	32	0.67
BRAIN & OTHER C.N.S.	4	0.47	19	0.75	6	0.59	42	1.42
BENIGN & UNSPEC NEOPLASMS	2	0.87	5	0.72	4	1.18	13	1.31

Table 1-C.17

Age at death: 60 plus

Arkansas 1,2 (1974)
Pope, AR

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.85	0.74	0.95	1.09
ALL CANCER, EXCL LEUK	1.09	0.90	1.00	1.21***
HODGKIN'S DISEASE	0.74	0.32	0.87	2.00
OTHER LYMPHOMA	0.83	0.86	1.25	1.21
MULTIPLE MYELOMA	0.68	1.02	1.10	0.73
DIGESTIVE ORGANS	1.22*	1.05	1.01	1.17*
STOMACH	1.67**	1.15	0.88	1.27
COLON & RECTUM	1.15	1.06	1.12	1.22
LIVER (PRIMARY)	0.96	0.89	1.25	1.34
TRACHEA, BRONCHUS, LUNG	1.04	0.99	1.25	1.31***
BREAST (FEMALE)	1.38	0.77	0.86	1.54**
THYROID	0.84	0.00	0.00	1.18
BONES & JOINTS	1.12	0.73	1.07	1.63
BLADDER	0.90	0.81	0.78	0.87
BRAIN & OTHER C.N.S.	0.63	0.42*	1.26	1.89*
BENIGN & UNSPEC NEOPLASMS	1.21	0.90	1.36	1.82

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-C.17

Age at death: all

Arkansas 1,2 (1974)
Pope, AR

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	53	1.12	125	0.92	28	0.97	84	1.02
ALL CANCER, EXCL LEUK	872	0.87	2354	0.80	588	0.87	1863	0.95
HODGKIN'S DISEASE	8	0.72	29	0.93	2	0.54	18	1.73
OTHER LYMPHOMA	20	0.71	61	0.75	18	0.81	68	1.06
MULTIPLE MYELOMA	9	0.79	39	1.15	11	1.02	29	0.92
DIGESTIVE ORGANS	277	0.79	691	0.67	151	0.80	425	0.77
STOMACH	90	1.24	149	0.69	23	0.95	63	0.89
COLON & RECTUM	100	0.64	282	0.61	70	0.75	194	0.71
LIVER (PRIMARY)	22	0.66	68	0.69	6	0.64	28	1.02
TRACHEA, BRONCHUS, LUNG	141	0.85	397	0.81	193	1.11	538	1.06
BREAST (FEMALE)	73	0.82	172	0.67	45	0.75	137	0.80
THYROID	3	0.80	9	0.82	0	0.00	6	1.21
BONES & JOINTS	5	0.70	18	0.88	2	0.84	5	0.74
BLADDER	20	0.64	70	0.75	10	0.56	33	0.63
BRAIN & OTHER C.N.S.	15	0.64	59	0.89	11	0.62	71	1.42
BENIGN & UNSPEC NEOPLASMS	2	0.53	5	0.46	6	1.26	15	1.09

Table 1-C.17

Age at death: all

Arkansas 1,2 (1974)
Pope, AR

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.22	0.95	0.87	1.11
ALL CANCER, EXCL LEUK	1.09*	0.92	1.00	1.19***
HODGKIN'S DISEASE	0.77	0.31	0.75	1.86
OTHER LYMPHOMA	0.95	0.76	1.14	1.41
MULTIPLE MYELOMA	0.69	1.11	1.29	0.80
DIGESTIVE ORGANS	1.18*	1.04	1.01	1.15*
STOMACH	1.80***	1.07	0.77	1.29
COLON & RECTUM	1.05	1.06	1.17	1.16
LIVER (PRIMARY)	0.96	0.63	0.97	1.48
TRACHEA, BRONCHUS, LUNG	1.05	1.05	1.31*	1.31***
BREAST (FEMALE)	1.22	0.94	0.91	1.19
THYROID	0.98	0.00	0.00	1.48
BONES & JOINTS	0.80	1.14	1.20	0.84
BLADDER	0.85	0.89	0.88	0.84
BRAIN & OTHER C.N.S.	0.72	0.44**	0.97	1.60*
BENIGN & UNSPEC NEOPLASMS	1.15	1.16	2.38	2.37

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.18

Age at death: under 10

Calvert Cliffs 1,2 (1974)
Calvert, MD

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4	1.20	11	0.83	1	1.01	1	0.43
ALL CANCER, EXCL LEUK	2	0.49	12	0.80	1	0.67	3	0.85
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	1	0.51	1	6.79	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	4.71	1	1.30	0	0.00	1	5.08
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	1	8.68	1	2.32	0	0.00	1	6.94
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	4	0.68	0	0.00	0	0.00
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-C.18

Age at death: under 10

Calvert Cliffs 1,2 (1974)
Calvert, MD

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.45	2.35	0.84	0.52
ALL CANCER, EXCL LEUK	0.61	0.79	1.37	1.06
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	0.00	-	-	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	3.62	0.00	0.00	3.91
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	3.74	0.00	0.00	2.99
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	-	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.00	-	-	0.00
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.18

Age at death: 10 to 19

Calvert Cliffs 1,2 (1974)
Calvert, MD

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4	2.27	9	1.26	1	0.94	1	0.36
ALL CANCER, EXCL LEUK	6	1.67	13	0.92	2	1.01	3	0.57
HODGKIN'S DISEASE	0	0.00	1	0.72	1	8.14	0	0.00
OTHER LYMPHOMA	0	0.00	2	0.99	0	0.00	2	2.78
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	4.36	0	0.00	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	1	22.66	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	3	4.67	2	0.78	0	0.00	1	1.09
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	2	0.58	0	0.00	0	0.00
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	1	3.96

Table 1-C.18

Age at death: 10 to 19

Calvert Cliffs 1,2 (1974)
Calvert, MD

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.80	2.61	0.41	0.29
ALL CANCER, EXCL LEUK	1.82	1.77	0.60	0.62
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	0.00	0.00	-	2.81
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	0.00	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	0.00	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	5.99	0.00	0.00	1.40
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.00	-	-	0.00
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-C.18

Age at death: 20 to 39

Calvert Cliffs 1,2 (1974)
Calvert, MD

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	5	2.28	11	1.01	0	0.00	10	1.83
ALL CANCER, EXCL LEUK	23	1.08	114	1.10	14	0.86	45	1.05
HODGKIN'S DISEASE	3	1.87	8	0.96	1	1.11	2	0.80
OTHER LYMPHOMA	1	0.91	1	0.18	2	1.91	2	0.71
MULTIPLE MYELOMA	0	0.00	1	1.98	0	0.00	0	0.00
DIGESTIVE ORGANS	4	1.02	25	1.35	1	0.39	5	0.75
STOMACH	1	1.12	4	0.98	0	0.00	2	1.72
COLON & RECTUM	2	1.15	11	1.29	1	0.83	1	0.32
LIVER (PRIMARY)	0	0.00	4	1.94	0	0.00	1	1.26
TRACHEA, BRONCHUS, LUNG	2	1.11	11	1.30	1	0.60	3	0.72
BREAST (FEMALE)	4	1.36	16	1.10	3	1.13	8	1.17
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	2	1.12	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	2	1.26	9	1.10	1	0.70	2	0.52
BENIGN & UNSPEC NEOPLASMS	1	4.50	6	7.13	2	6.99	1	1.22

Table 1-C.18

Age at death: 20 to 39

Calvert Cliffs 1,2 (1974)
Calvert, MD

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	2.26	0.00	0.00	1.81
ALL CANCER, EXCL LEUK	0.98	0.82	0.80	0.95
HODGKIN'S DISEASE	1.95	1.39	0.59	0.83
OTHER LYMPHOMA	5.06	2.69	2.10	3.94
MULTIPLE MYELOMA	0.00	-	-	0.00
DIGESTIVE ORGANS	0.76	0.52	0.38	0.56
STOMACH	1.14	0.00	0.00	1.76
COLON & RECTUM	0.89	2.59	0.72	0.25
LIVER (PRIMARY)	0.00	0.00	-	0.65
TRACHEA, BRONCHUS, LUNG	0.85	0.83	0.54	0.55
BREAST (FEMALE)	1.24	0.97	0.83	1.06
THYROID	-	-	-	-
BONES & JOINTS	0.00	-	-	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.15	1.35	0.56	0.47
BENIGN & UNSPEC NEOPLASMS	0.63	5.73	1.55	0.17

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.18

Age at death: 40 to 59

Calvert Cliffs 1,2 (1974)
Calvert, MD

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1	0.20	24	0.86	3	0.84	14	1.14
ALL CANCER, EXCL LEUK	161	0.99	877	1.02	133	1.09	489	1.15
HODGKIN'S DISEASE	2	1.05	16	1.50	2	2.83	1	0.42
OTHER LYMPHOMA	2	0.46	32	1.34	3	0.87	16	1.34
MULTIPLE MYELOMA	3	1.44	10	0.95	2	1.19	7	1.18
DIGESTIVE ORGANS	47	1.03	224	0.93	35	1.29	95	1.00
STOMACH	13	1.34	37	0.74	4	1.07	16	1.24
COLON & RECTUM	17	1.00	90	0.95	17	1.52	38	0.96
LIVER (PRIMARY)	4	0.86	17	0.69	2	1.18	4	0.69
TRACHEA, BRONCHUS, LUNG	31	0.91	188	1.10	48	1.28	152	1.17
BREAST (FEMALE)	23	1.16	106	0.94	13	0.84	59	1.07
THYROID	0	0.00	2	0.72	1	4.13	0	0.00
BONES & JOINTS	3	3.35	5	1.02	0	0.00	0	0.00
BLADDER	5	1.90	7	0.51	3	2.42	8	1.81
BRAIN & OTHER C.N.S.	2	0.40	28	1.00	1	0.26	15	1.12
BENIGN & UNSPEC NEOPLASMS	0	0.00	6	1.81	1	1.21	2	0.67

Table 1-C.18

Age at death: 40 to 59

Calvert Cliffs 1,2 (1974)
Calvert, MD

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.23	0.74	4.20	1.33
ALL CANCER, EXCL LEUK	0.97	0.95	1.10	1.13*
HODGKIN'S DISEASE	0.70	6.74	2.70	0.28
OTHER LYMPHOMA	0.34	0.65	1.89	1.00
MULTIPLE MYELOMA	1.52	1.01	0.83	1.24
DIGESTIVE ORGANS	1.11	1.29	1.25	1.08
STOMACH	1.81	0.86	0.80	1.68
COLON & RECTUM	1.05	1.58	1.52	1.01
LIVER (PRIMARY)	1.25	1.71	1.37	1.00
TRACHEA, BRONCHUS, LUNG	0.83	1.09	1.41	1.06
BREAST (FEMALE)	1.23	0.79	0.72	1.14
THYROID	0.00	-	-	0.00
BONES & JOINTS	3.28	-	0.00	0.00
BLADDER	3.73	1.34	1.27	3.55*
BRAIN & OTHER C.N.S.	0.40	0.23	0.65	1.12
BENIGN & UNSPEC NEOPLASMS	0.00	1.81	-	0.37

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.18

Age at death: 60 plus

Calvert Cliffs 1,2 (1974)
Calvert, MD

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	12	0.87	70	0.85	13	1.08	56	1.03
ALL CANCER, EXCL LEUK	404	1.04	2259	0.99	399	1.15	1718	1.13
HODGKIN'S DISEASE	1	0.46	10	0.77	1	0.97	5	1.11
OTHER LYMPHOMA	6	0.68	62	1.19	9	0.91	61	1.39
MULTIPLE MYELOMA	2	0.38	39	1.35	6	0.92	38	1.31
DIGESTIVE ORGANS	159	1.07	758	0.86	115	1.11	453	0.98
STOMACH	55	1.64	169	0.85	11	0.77	58	0.91
COLON & RECTUM	65	1.03	323	0.84	54	1.10	246	1.10
LIVER (PRIMARY)	13	0.94	80	0.93	6	1.11	20	0.85
TRACHEA, BRONCHUS, LUNG	72	1.11	431	1.25	114	1.27	456	1.22
BREAST (FEMALE)	22	0.85	147	0.87	24	0.98	127	1.11
THYROID	0	0.00	10	1.11	0	0.00	2	0.50
BONES & JOINTS	3	1.48	9	0.74	1	1.30	4	1.15
BLADDER	20	1.45	76	0.93	17	1.73	47	1.06
BRAIN & OTHER C.N.S.	4	0.91	16	0.65	7	1.10	22	0.81
BENIGN & UNSPEC NEOPLASMS	0	0.00	11	1.54	3	1.36	12	1.18

Table 1-C.18

Age at death: 60 plus

Calvert Cliffs 1,2 (1974)
Calvert, MD

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.02	1.05	1.24	1.21
ALL CANCER, EXCL LEUK	1.05	1.02	1.11	1.14***
HODGKIN'S DISEASE	0.60	0.87	2.11	1.44
OTHER LYMPHOMA	0.57	0.65	1.34	1.17
MULTIPLE MYELOMA	0.28	0.70	2.42	0.97
DIGESTIVE ORGANS	1.24*	1.13	1.04	1.14*
STOMACH	1.93***	0.85	0.47*	1.07
COLON & RECTUM	1.23	1.00	1.07	1.31**
LIVER (PRIMARY)	1.01	1.31	1.18	0.91
TRACHEA, BRONCHUS, LUNG	0.89	1.04	1.14	0.98
BREAST (FEMALE)	0.98	0.88	1.15	1.28
THYROID	0.00	0.00	-	0.45
BONES & JOINTS	2.00	1.13	0.88	1.55
BLADDER	1.56	1.63	1.19	1.14
BRAIN & OTHER C.N.S.	1.40	1.36	1.21	1.25
BENIGN & UNSPEC NEOPLASMS	0.00	1.15	-	0.77

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.18

Age at death: all

Calvert Cliffs 1,2 (1974)
Calvert, MD

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	26	0.99	125	0.88	18	0.92	82	1.06
ALL CANCER, EXCL LEUK	596	1.02	3275	1.00	549	1.12	2258	1.13
HODGKIN'S DISEASE	6	0.99	35	1.04	5	1.81	8	0.82
OTHER LYMPHOMA	9	0.59	98	1.15	15	1.01	81	1.36
MULTIPLE MYELOMA	5	0.67	50	1.25	8	0.96	45	1.28
DIGESTIVE ORGANS	212	1.07	1008	0.88	151	1.13	554	0.98
STOMACH	69	1.56	210	0.83	15	0.81	76	0.97
COLON & RECTUM	84	1.02	424	0.87	72	1.17	285	1.07
LIVER (PRIMARY)	18	0.94	102	0.90	8	1.07	26	0.85
TRACHEA, BRONCHUS, LUNG	106	1.05	630	1.20	163	1.26	611	1.20
BREAST (FEMALE)	49	1.00	269	0.91	40	0.94	194	1.10
THYROID	0	0.00	12	0.98	1	0.87	2	0.40
BONES & JOINTS	9	2.22	18	0.82	1	0.57	5	0.77
BLADDER	25	1.51	83	0.87	20	1.80	55	1.13
BRAIN & OTHER C.N.S.	8	0.60	59	0.84	9	0.71	39	0.83
BENIGN & UNSPEC NEOPLASMS	1	0.38	23	1.91	6	1.69	16	1.10

Table 1-C.18

Age at death: all

Calvert Cliffs 1,2 (1974)
Calvert, MD

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.13	0.87	0.93	1.20
ALL CANCER, EXCL LEUK	1.02	0.99	1.10	1.13***
HODGKIN'S DISEASE	0.95	2.21	1.83	0.79
OTHER LYMPHOMA	0.51	0.74	1.71	1.18
MULTIPLE MYELOMA	0.54	0.75	1.43	1.02
DIGESTIVE ORGANS	1.22*	1.15	1.06	1.11
STOMACH	1.88***	0.84	0.52*	1.17
COLON & RECTUM	1.17	1.09	1.15	1.23**
LIVER (PRIMARY)	1.04	1.26	1.14	0.94
TRACHEA, BRONCHUS, LUNG	0.88	1.05	1.20	1.00
BREAST (FEMALE)	1.10	0.85	0.94	1.21
THYROID	0.00	2.18	-	0.41
BONES & JOINTS	2.71*	0.74	0.26	0.94
BLADDER	1.74*	1.59	1.19	1.30
BRAIN & OTHER C.N.S.	0.71	0.86	1.18	0.99
BENIGN & UNSPEC NEOPLASMS	0.20	1.54	4.45	0.58

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.19

Age at death: under 10

Cooper Station (1974)
Atchison, MO ; Nemaha, NE ; Richardson, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	10	1.67	22	1.01	0	0.00	1	0.31
ALL CANCER, EXCL LEUK	4	0.66	24	1.08	3	2.77	2	0.44
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	4	1.30	1	9.26	1	2.24
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	1	0.88	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	1	1.20	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	2	0.82	10	1.12	0	0.00	0	0.00
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	1	2.49

Table 1-C.19

Age at death: under 10

Cooper Station (1974)
Atchison, MO ; Nemaha, NE ; Richardson, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.65	0.00	0.00	0.31
ALL CANCER, EXCL LEUK	0.61	6.30	4.20	0.41
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	0.00	4.13	-	1.72
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	-	-	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.73	-	0.00	0.00
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.19

Age at death: 10 to 19

Cooper Station (1974)
Atchison, MO ; Nemaha, NE ; Richardson, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	0	0.00	12	1.00	1	1.31	2	0.57
ALL CANCER, EXCL LEUK	3	0.49	28	1.22	0	0.00	6	0.96
HODGKIN'S DISEASE	0	0.00	2	0.83	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	4	1.19	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	1	0.93	0	0.00	1	3.44
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	1	2.44	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	1	7.48
TRACHEA, BRONCHUS, LUNG	0	0.00	1	3.72	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	2	1.73	5	1.16	0	0.00	1	0.89
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	1	0.66	6	1.06	0	0.00	2	1.26
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	1	3.52

Table 1-C.19

Age at death: 10 to 19

Cooper Station (1974)
Atchison, MO ; Nemaha, NE ; Richardson, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.00	2.30	-	0.57
ALL CANCER, EXCL LEUK	0.40	0.00	0.00	0.79
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	0.00	-	-	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	0.00	-	3.70
STOMACH	-	-	-	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	-	0.00	-	-
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.49	0.00	0.00	0.77
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.62	0.00	0.00	1.19
BENIGN & UNSPEC NEOPLASMS	-	0.00	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.19

Age at death: 20 to 39

Cooper Station (1974)
Atchison, MO ; Nemaha, NE ; Richardson, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3	0.75	17	1.18	2	1.50	5	0.87
ALL CANCER, EXCL LEUK	43	1.24	115	0.93	10	1.01	33	0.80
HODGKIN'S DISEASE	2	0.61	15	1.26	3	4.53	3	1.07
OTHER LYMPHOMA	5	2.52	5	0.70	1	1.45	1	0.34
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	11	1.90	19	0.93	2	1.44	9	1.58
STOMACH	0	0.00	2	0.48	0	0.00	0	0.00
COLON & RECTUM	7	2.40	10	0.97	1	1.45	5	1.78
LIVER (PRIMARY)	0	0.00	2	1.01	0	0.00	1	1.71
TRACHEA, BRONCHUS, LUNG	2	0.78	2	0.21	0	0.00	2	0.53
BREAST (FEMALE)	4	0.84	16	0.95	1	0.67	6	0.97
THYROID	0	0.00	1	2.42	0	0.00	0	0.00
BONES & JOINTS	1	1.47	3	1.23	0	0.00	1	1.05
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	6	1.89	16	1.40	0	0.00	4	0.96
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-C.19

Age at death: 20 to 39

Cooper Station (1974)
Atchison, MO ; Nemaha, NE ; Richardson, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.64	1.72	2.00	0.74
ALL CANCER, EXCL LEUK	1.33	1.26	0.81	0.86
HODGKIN'S DISEASE	0.48	4.23	7.43	0.85
OTHER LYMPHOMA	3.60	4.26	0.58	0.49
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	2.04	0.91	0.76	1.70
STOMACH	0.00	-	-	0.00
COLON & RECTUM	2.47	0.81	0.60	1.84
LIVER (PRIMARY)	0.00	0.00	-	1.69
TRACHEA, BRONCHUS, LUNG	3.71	0.00	0.00	2.52
BREAST (FEMALE)	0.88	0.69	0.80	1.02
THYROID	0.00	-	-	0.00
BONES & JOINTS	1.20	0.00	0.00	0.85
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.35	0.00	0.00	0.69
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.19

Age at death: 40 to 59

Cooper Station (1974)
Atchison, MO ; Nemaha, NE ; Richardson, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	9	0.73	46	1.07	3	0.91	15	1.13
ALL CANCER, EXCL LEUK	305	0.88	955	0.79	90	0.84	321	0.74
HODGKIN'S DISEASE	7	1.47	22	1.33	0	0.00	1	0.38
OTHER LYMPHOMA	6	0.56	32	0.86	1	0.29	13	0.94
MULTIPLE MYELOMA	6	1.62	11	0.85	1	0.77	2	0.38
DIGESTIVE ORGANS	89	0.95	251	0.77	19	0.84	74	0.81
STOMACH	11	0.62	50	0.81	4	1.40	5	0.43
COLON & RECTUM	51	1.23	120	0.83	11	1.05	44	1.05
LIVER (PRIMARY)	5	0.52	30	0.90	0	0.00	6	1.23
TRACHEA, BRONCHUS, LUNG	38	0.56	151	0.63	37	1.13	100	0.75
BREAST (FEMALE)	56	1.16	157	0.93	10	0.66	46	0.78
THYROID	1	0.85	6	1.46	0	0.00	2	2.21
BONES & JOINTS	6	2.91	6	0.84	0	0.00	0	0.00
BLADDER	6	1.10	12	0.63	2	1.71	1	0.21
BRAIN & OTHER C.N.S.	20	1.52	39	0.85	0	0.00	13	0.83
BENIGN & UNSPEC NEOPLASMS	3	3.02	1	0.28	0	0.00	7	2.41

Table 1-C.19

Age at death: 40 to 59

Cooper Station (1974)
Atchison, MO ; Nemaha, NE ; Richardson, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.68	0.81	1.25	1.06
ALL CANCER, EXCL LEUK	1.11	1.14	0.95	0.94
HODGKIN'S DISEASE	1.11	0.00	0.00	0.29
OTHER LYMPHOMA	0.65	0.31	0.52	1.09
MULTIPLE MYELOMA	1.91	2.03	0.48	0.45
DIGESTIVE ORGANS	1.23	1.04	0.88	1.05
STOMACH	0.77	3.26	2.26	0.53
COLON & RECTUM	1.48*	1.00	0.85	1.27
LIVER (PRIMARY)	0.58	0.00	0.00	1.37
TRACHEA, BRONCHUS, LUNG	0.89	1.51	2.02**	1.19
BREAST (FEMALE)	1.25	0.85	0.57	0.84
THYROID	0.58	0.00	0.00	1.51
BONES & JOINTS	3.46	-	0.00	0.00
BLADDER	1.75	8.14	1.55	0.33
BRAIN & OTHER C.N.S.	1.79	0.00	0.00*	0.98
BENIGN & UNSPEC NEOPLASMS	10.79	0.00	0.00	8.61*

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.19

Age at death: 60 plus

Cooper Station (1974)
Atchison, MO ; Nemaha, NE ; Richardson, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	54	1.03	198	1.04	22	0.84	108	1.14
ALL CANCER, EXCL LEUK	1226	0.92	4209	0.86	629	0.96	1974	0.83
HODGKIN'S DISEASE	12	1.48	45	1.53	2	0.96	3	0.40
OTHER LYMPHOMA	40	1.24	119	1.02	30	1.44	71	0.94
MULTIPLE MYELOMA	9	0.59	45	0.82	19	1.70	33	0.82
DIGESTIVE ORGANS	499	0.94	1698	0.88	194	0.96	642	0.88
STOMACH	96	0.83	359	0.85	19	0.74	67	0.72
COLON & RECTUM	251	1.04	794	0.91	106	1.02	365	0.97
LIVER (PRIMARY)	43	0.82	184	0.97	5	0.54	26	0.77
TRACHEA, BRONCHUS, LUNG	170	0.87	474	0.67	137	0.88	392	0.69
BREAST (FEMALE)	84	0.84	311	0.87	46	0.92	156	0.88
THYROID	4	0.73	18	0.91	2	1.09	4	0.61
BONES & JOINTS	4	0.53	31	1.12	1	0.62	6	1.04
BLADDER	43	0.83	126	0.66	26	1.19	76	0.96
BRAIN & OTHER C.N.S.	10	0.69	46	0.89	9	0.75	44	1.01
BENIGN & UNSPEC NEOPLASMS	2	0.55	8	0.62	6	1.34	18	1.12

Table 1-C.19

Age at death: 60 plus

Cooper Station (1974)
Atchison, MO ; Nemaha, NE ; Richardson, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.99	0.74	0.82	1.10
ALL CANCER, EXCL LEUK	1.07	1.16**	1.04	0.97
HODGKIN'S DISEASE	0.97	2.40	0.65	0.26*
OTHER LYMPHOMA	1.22	1.53	1.16	0.92
MULTIPLE MYELOMA	0.72	2.07*	2.88*	1.00
DIGESTIVE ORGANS	1.07	1.09	1.02	1.00
STOMACH	0.98	1.03	0.89	0.85
COLON & RECTUM	1.14	1.05	0.98	1.07
LIVER (PRIMARY)	0.85	0.70	0.66	0.79
TRACHEA, BRONCHUS, LUNG	1.30**	1.28*	1.01	1.03
BREAST (FEMALE)	0.97	1.05	1.10	1.01
THYROID	0.80	1.79	1.49	0.67
BONES & JOINTS	0.47	0.60	1.17	0.93
BLADDER	1.26	1.24	1.43	1.45*
BRAIN & OTHER C.N.S.	0.78	0.74	1.09	1.13
BENIGN & UNSPEC NEOPLASMS	0.89	1.20	2.44	1.81

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.19

Age at death: all

Cooper Station (1974)
Atchison, MO ; Nemaha, NE ; Richardson, NE

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	76	0.97	295	1.04	28	0.87	131	1.09
ALL CANCER, EXCL LEUK	1581	0.91	5331	0.85	732	0.94	2336	0.82
HODGKIN'S DISEASE	21	1.24	84	1.39	5	1.43	7	0.52
OTHER LYMPHOMA	51	1.10	164	0.98	33	1.30	86	0.92
MULTIPLE MYELOMA	15	0.79	56	0.82	20	1.60	35	0.76
DIGESTIVE ORGANS	599	0.95	1970	0.86	215	0.95	726	0.88
STOMACH	107	0.80	411	0.84	23	0.80	72	0.68
COLON & RECTUM	309	1.08	925	0.90	118	1.02	414	0.99
LIVER (PRIMARY)	48	0.77	216	0.95	5	0.47	34	0.86
TRACHEA, BRONCHUS, LUNG	210	0.79	628	0.65	174	0.92	494	0.70
BREAST (FEMALE)	144	0.94	484	0.89	57	0.86	208	0.86
THYROID	5	0.73	25	1.02	2	0.96	6	0.79
BONES & JOINTS	13	1.11	46	1.08	1	0.42	8	0.87
BLADDER	49	0.85	138	0.65	28	1.21	77	0.91
BRAIN & OTHER C.N.S.	39	1.12	117	0.95	9	0.51	63	0.95
BENIGN & UNSPEC NEOPLASMS	5	0.99	9	0.49	6	1.08	27	1.33

Table 1-C.19

Age at death: all

Cooper Station (1974)
Atchison, MO ; Nemaha, NE ; Richardson, NE

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.93	0.80	0.90	1.05
ALL CANCER, EXCL LEUK	1.07*	1.15***	1.03	0.96
HODGKIN'S DISEASE	0.89	2.75	1.15	0.37**
OTHER LYMPHOMA	1.12	1.41	1.18	0.94
MULTIPLE MYELOMA	0.96	2.11*	2.03	0.93
DIGESTIVE ORGANS	1.10*	1.08	1.00	1.02
STOMACH	0.95	1.18	1.00	0.81
COLON & RECTUM	1.20**	1.03	0.94	1.10
LIVER (PRIMARY)	0.81	0.55	0.61	0.91
TRACHEA, BRONCHUS, LUNG	1.22*	1.31**	1.16	1.08
BREAST (FEMALE)	1.06	1.00	0.91	0.97
THYROID	0.72	1.22	1.32	0.77
BONES & JOINTS	1.03	0.48	0.38	0.81
BLADDER	1.31	1.33	1.42	1.40*
BRAIN & OTHER C.N.S.	1.18	0.54	0.46*	1.00
BENIGN & UNSPEC NEOPLASMS	2.02	0.81	1.09	2.71*

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Age at death: under 10

Duane Arnold (1974)
Benton, IA ; Linn, IA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	37	1.06	50	1.01	4	0.70	8	1.03
ALL CANCER, EXCL LEUK	35	0.98	51	1.01	12	1.49	14	1.28
HODGKIN'S DISEASE	0	0.00	1	1.29	0	0.00	0	0.00
OTHER LYMPHOMA	6	1.25	5	0.72	2	2.51	1	0.93
MULTIPLE MYELOMA	0	0.00	1	54.67	0	0.00	0	0.00
DIGESTIVE ORGANS	3	1.65	2	0.77	0	0.00	1	1.72
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	5.40	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	2	1.82	2	1.29	0	0.00	1	2.18
TRACHEA, BRONCHUS, LUNG	0	0.00	2	4.72	1	12.03	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.78	1	0.54	0	0.00	0	0.00
BLADDER	1	4.90	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	13	0.91	18	0.89	4	1.40	3	0.77
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	0.80	0	0.00	0	0.00

Table 1-C.20(MORT)

Age at death: under 10

Duane Arnold (1974)
Benton, IA ; Linn, IA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.05	0.68	0.66	1.02
ALL CANCER, EXCL LEUK	0.97	1.16	1.52	1.27
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	1.74	2.70	2.01	1.29
MULTIPLE MYELOMA	0.00	-	-	0.00
DIGESTIVE ORGANS	2.14	0.00	0.00	2.23
STOMACH	-	-	-	-
COLON & RECTUM	-	-	0.00	-
LIVER (PRIMARY)	1.41	0.00	0.00	1.69
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.44	-	0.00	0.00
BLADDER	-	-	0.00	-
BRAIN & OTHER C.N.S.	1.02	1.82	1.54	0.87
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.20(MORT)

Age at death: 10 to 19

Duane Arnold (1974)
Benton, IA ; Linn, IA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	15	0.96	26	1.11	9	1.53	9	1.10
ALL CANCER, EXCL LEUK	24	0.82	40	0.90	19	1.83	17	1.18
HODGKIN'S DISEASE	4	1.33	7	1.53	2	2.97	1	1.08
OTHER LYMPHOMA	5	1.15	6	0.92	2	1.34	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	0.75	1	0.49	2	4.12	1	1.51
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	1	2.20	1	1.48	2	8.86	1	3.23
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	5	0.91	7	0.84	1	0.54	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	4	0.54	9	0.81	12	4.45	4	1.07
BENIGN & UNSPEC NEOPLASMS	1	1.41	0	0.00	1	2.09	1	1.52

Table 1-C.20(MORT)

Age at death: 10 to 19

Duane Arnold (1974)
Benton, IA ; Linn, IA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.86	1.39	1.59	0.99
ALL CANCER, EXCL LEUK	0.91	1.55	2.23*	1.31
HODGKIN'S DISEASE	0.87	2.75	2.23	0.71
OTHER LYMPHOMA	1.25	-	1.17	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.53	2.73	5.49	3.08
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	1.49	2.74	4.03	2.18
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.08	-	0.59	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.67	4.16*	8.24***	1.32
BENIGN & UNSPEC NEOPLASMS	-	1.38	1.48	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Age at death: 20 to 39

Duane Arnold (1974)
Benton, IA ; Linn, IA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	16	0.67	40	1.31	12	1.08	12	0.92
ALL CANCER, EXCL LEUK	169	0.83	280	1.07	82	1.00	101	1.06
HODGKIN'S DISEASE	19	0.96	32	1.27	6	1.09	9	1.39
OTHER LYMPHOMA	10	0.84	18	1.19	6	1.05	8	1.20
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	2	5.09
DIGESTIVE ORGANS	22	0.66	45	1.05	16	1.40	15	1.13
STOMACH	2	0.30	5	0.59	1	0.55	3	1.44
COLON & RECTUM	15	0.91	26	1.21	8	1.41	7	1.06
LIVER (PRIMARY)	1	0.31	5	1.21	2	1.70	2	1.48
TRACHEA, BRONCHUS, LUNG	14	0.89	10	0.50	4	0.53	10	1.14
BREAST (FEMALE)	16	0.58	34	0.97	11	0.87	16	1.11
THYROID	1	1.47	1	1.15	0	0.00	0	0.00
BONES & JOINTS	3	0.78	6	1.19	0	0.00	1	0.48
BLADDER	1	1.25	1	0.96	0	0.00	1	3.46
BRAIN & OTHER C.N.S.	27	1.43	24	1.00	12	1.46	12	1.24
BENIGN & UNSPEC NEOPLASMS	2	1.20	1	0.52	0	0.00	2	1.12

Table 1-C.20(MORT)

Age at death: 20 to 39

Duane Arnold (1974)
Benton, IA ; Linn, IA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.51*	1.17	1.61	0.70
ALL CANCER, EXCL LEUK	0.78**	0.94	1.20	0.99
HODGKIN'S DISEASE	0.76	0.78	1.14	1.09
OTHER LYMPHOMA	0.71	0.88	1.25	1.01
MULTIPLE MYELOMA	-	0.00	-	-
DIGESTIVE ORGANS	0.63	1.24	2.12*	1.08
STOMACH	0.51	0.38	1.83	2.44
COLON & RECTUM	0.75	1.33	1.55	0.88
LIVER (PRIMARY)	0.26	1.15	5.48	1.22
TRACHEA, BRONCHUS, LUNG	1.78	0.46	0.60	2.28
BREAST (FEMALE)	0.60	0.78	1.50	1.14
THYROID	1.28	-	0.00	0.00
BONES & JOINTS	0.66	0.00	0.00	0.40
BLADDER	1.30	0.00	0.00	3.60
BRAIN & OTHER C.N.S.	1.43	1.18	1.02	1.24
BENIGN & UNSPEC NEOPLASMS	2.31	0.00	0.00	2.15

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.20(MORT)

Age at death: 40 to 59

Duane Arnold (1974)
Benton, IA ; Linn, IA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	53	1.00	83	1.10	18	0.87	22	0.81
ALL CANCER, EXCL LEUK	1397	0.94	2010	0.95	596	0.90	845	0.97
HODGKIN'S DISEASE	14	0.67	29	0.99	4	0.95	10	1.83
OTHER LYMPHOMA	63	1.36	78	1.19	20	0.94	49	1.76
MULTIPLE MYELOMA	14	0.88	20	0.89	7	0.88	10	0.95
DIGESTIVE ORGANS	377	0.96	544	0.96	140	1.01	191	1.04
STOMACH	46	0.63	67	0.64	13	0.73	14	0.60
COLON & RECTUM	196	1.13	267	1.07	68	1.07	99	1.17
LIVER (PRIMARY)	20	0.52	58	1.03	8	1.06	6	0.61
TRACHEA, BRONCHUS, LUNG	270	0.90	366	0.87	172	0.85	241	0.90
BREAST (FEMALE)	194	0.92	306	1.02	81	0.89	120	1.00
THYROID	4	0.82	6	0.85	0	0.00	1	0.55
BONES & JOINTS	7	0.82	14	1.14	0	0.00	2	0.84
BLADDER	22	0.98	31	0.96	6	0.84	9	0.95
BRAIN & OTHER C.N.S.	56	0.98	87	1.07	37	1.52	39	1.22
BENIGN & UNSPEC NEOPLASMS	9	1.71	4	0.57	6	1.33	2	0.34

Table 1-C.20(MORT)

Age at death: 40 to 59

Duane Arnold (1974)
Benton, IA ; Linn, IA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.91	1.07	0.87	0.74
ALL CANCER, EXCL LEUK	0.99	0.93	0.96	1.02
HODGKIN'S DISEASE	0.68	0.52	1.42	1.85
OTHER LYMPHOMA	1.14	0.53*	0.69	1.48*
MULTIPLE MYELOMA	0.99	0.93	1.00	1.07
DIGESTIVE ORGANS	1.00	0.97	1.05	1.08
STOMACH	0.98	1.22	1.16	0.94
COLON & RECTUM	1.06	0.91	0.95	1.09
LIVER (PRIMARY)	0.50**	1.74	2.04	0.59
TRACHEA, BRONCHUS, LUNG	1.03	0.94	0.94	1.03
BREAST (FEMALE)	0.90	0.89	0.97	0.98
THYROID	0.96	0.00	0.00	0.65
BONES & JOINTS	0.72	0.00	0.00	0.74
BLADDER	1.02	0.88	0.86	0.99
BRAIN & OTHER C.N.S.	0.92	1.25	1.55	1.14
BENIGN & UNSPEC NEOPLASMS	3.00	3.91	0.78	0.60

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Age at death: 60 plus

Duane Arnold (1974)
Benton, IA ; Linn, IA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	178	1.06	331	1.23	99	1.08	154	1.08
ALL CANCER, EXCL LEUK	4365	1.01	6625	0.96	2390	1.01	3544	0.97
HODGKIN'S DISEASE	28	1.06	44	1.04	5	0.66	9	0.77
OTHER LYMPHOMA	151	1.44	176	1.05	98	1.30	115	0.99
MULTIPLE MYELOMA	59	1.18	88	1.11	53	1.31	74	1.19
DIGESTIVE ORGANS	1660	0.98	2603	0.95	754	1.05	1126	1.01
STOMACH	296	0.82	533	0.91	74	0.82	117	0.83
COLON & RECTUM	803	1.04	1226	0.99	424	1.16	636	1.12
LIVER (PRIMARY)	172	1.03	260	0.96	31	0.93	52	1.01
TRACHEA, BRONCHUS, LUNG	661	1.03	845	0.83	571	0.99	815	0.93
BREAST (FEMALE)	350	1.04	597	1.12	174	0.93	295	1.03
THYROID	14	0.78	40	1.40	5	0.76	8	0.79
BONES & JOINTS	19	0.79	27	0.70	5	0.89	16	1.83
BLADDER	186	1.14	234	0.89	83	1.13	104	0.90
BRAIN & OTHER C.N.S.	57	1.16	83	1.08	54	1.19	78	1.12
BENIGN & UNSPEC NEOPLASMS	13	1.08	10	0.53	17	1.09	18	0.74

Table 1-C.20(MORT)

Age at death: 60 plus

Duane Arnold (1974)
Benton, IA ; Linn, IA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.86	1.00	1.02	0.88
ALL CANCER, EXCL LEUK	1.05**	1.04	1.00	1.01
HODGKIN'S DISEASE	1.02	0.86	0.62	0.74
OTHER LYMPHOMA	1.37**	1.31	0.90	0.94
MULTIPLE MYELOMA	1.06	1.10	1.11	1.07
DIGESTIVE ORGANS	1.03	1.04	1.07	1.06
STOMACH	0.90	0.99	1.00	0.91
COLON & RECTUM	1.05	1.04	1.12	1.13*
LIVER (PRIMARY)	1.07	0.92	0.90	1.05
TRACHEA, BRONCHUS, LUNG	1.24***	1.06	0.96	1.12*
BREAST (FEMALE)	0.93	0.90	0.89	0.92
THYROID	0.56	0.96	0.97	0.56
BONES & JOINTS	1.13	0.49	1.13	2.61**
BLADDER	1.28*	1.26	0.99	1.01
BRAIN & OTHER C.N.S.	1.07	1.06	1.03	1.04
BENIGN & UNSPEC NEOPLASMS	2.04	1.47	1.01	1.40

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.20(MORT)

Age at death: all

Duane Arnold (1974)
Benton, IA ; Linn, IA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	299	1.01	530	1.18	142	1.05	205	1.03
ALL CANCER, EXCL LEUK	5990	0.99	9006	0.96	3099	0.99	4521	0.97
HODGKIN'S DISEASE	65	0.92	113	1.11	17	0.94	29	1.18
OTHER LYMPHOMA	235	1.36	283	1.08	128	1.22	173	1.12
MULTIPLE MYELOMA	73	1.09	109	1.06	60	1.23	86	1.18
DIGESTIVE ORGANS	2063	0.97	3195	0.96	912	1.05	1334	1.02
STOMACH	344	0.78	605	0.86	88	0.80	134	0.81
COLON & RECTUM	1015	1.06	1519	1.00	500	1.15	742	1.12
LIVER (PRIMARY)	196	0.93	326	0.98	43	1.01	62	0.98
TRACHEA, BRONCHUS, LUNG	945	0.99	1223	0.84	748	0.95	1066	0.92
BREAST (FEMALE)	560	0.98	937	1.08	266	0.91	431	1.02
THYROID	19	0.81	47	1.28	5	0.61	9	0.73
BONES & JOINTS	35	0.81	55	0.83	6	0.53	19	1.18
BLADDER	210	1.13	266	0.89	89	1.10	114	0.91
BRAIN & OTHER C.N.S.	157	1.07	221	1.03	119	1.42	136	1.15
BENIGN & UNSPEC NEOPLASMS	25	1.21	16	0.53	24	1.05	23	0.68

Age at death: all

Duane Arnold (1974)
Benton, IA ; Linn, IA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.86*	1.02	1.04	0.87
ALL CANCER, EXCL LEUK	1.03	1.02	1.00	1.01
HODGKIN'S DISEASE	0.83	0.80	1.02	1.06
OTHER LYMPHOMA	1.26*	1.09	0.90	1.04
MULTIPLE MYELOMA	1.03	1.04	1.13	1.11
DIGESTIVE ORGANS	1.01	1.03	1.08	1.06
STOMACH	0.91	0.99	1.03	0.94
COLON & RECTUM	1.06	1.03	1.08	1.12*
LIVER (PRIMARY)	0.95	1.03	1.09	1.00
TRACHEA, BRONCHUS, LUNG	1.18***	1.03	0.96	1.10*
BREAST (FEMALE)	0.91	0.89	0.93	0.94
THYROID	0.63	0.84	0.75	0.57
BONES & JOINTS	0.98	0.45	0.65	1.42
BLADDER	1.27*	1.21	0.97	1.02
BRAIN & OTHER C.N.S.	1.04	1.23	1.33*	1.12
BENIGN & UNSPEC NEOPLASMS	2.28*	1.54	0.87	1.28

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Age at diagnosis: under 10

Duane Arnold (1974)
Benton, IA ; Linn, IA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	9	1.04	8	0.70	17	1.26	16	0.87
ALL CANCER, EXCL LEUK	15	1.02	22	1.13	33	1.14	33	0.85
HODGKIN'S DISEASE	0	0.00	1	1.16	0	0.00	2	2.03
OTHER LYMPHOMA	2	1.47	4	2.19	3	1.58	2	0.80
MULTIPLE MYELOMA	0	-	0	-	0	0.00	0	0.00
DIGESTIVE ORGANS	2	1.96	1	0.74	1	0.65	2	0.96
STOMACH	0	-	0	-	0	-	0	-
COLON & RECTUM	0	-	0	-	0	-	0	-
LIVER (PRIMARY)	1	1.72	0	0.00	0	0.00	1	1.03
TRACHEA, BRONCHUS, LUNG	0	-	0	-	0	0.00	0	0.00
BREAST (FEMALE)	0	-	0	-	0	-	0	-
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	1	0.98	2	1.43
BLADDER	1	13.75	0	0.00	0	-	0	-
BRAIN & OTHER C.N.S.	2	0.52	8	1.58	9	1.07	10	0.86

Table 1-C.20(INC)

Age at diagnosis: under 10

Duane Arnold (1974)
Benton, IA ; Linn, IA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.49	1.45	1.21	1.24
ALL CANCER, EXCL LEUK	0.90	1.34	1.12	0.75
HODGKIN'S DISEASE	0.00	0.00	-	1.75
OTHER LYMPHOMA	0.67	1.98	1.07	0.37
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	2.65	0.68	0.33	1.30
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	0.00	0.00	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	0.69	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.33	1.24	2.06	0.54

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.20(INC)

Age at diagnosis: 10 to 19

Duane Arnold (1974)
Benton, IA ; Linn, IA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	5	1.07	7	1.07	14	1.55	9	0.73
ALL CANCER, EXCL LEUK	21	1.11	27	1.02	55	1.32	59	1.03
HODGKIN'S DISEASE	3	0.98	6	1.39	14	1.56	12	0.98
OTHER LYMPHOMA	1	0.64	0	0.00	3	0.85	5	1.01
MULTIPLE MYELOMA	0	-	0	-	0	-	0	-
DIGESTIVE ORGANS	1	1.79	1	1.32	2	1.56	1	0.57
STOMACH	0	-	0	-	0	-	0	-
COLON & RECTUM	0	0.00	1	2.27	0	0.00	0	0.00
LIVER (PRIMARY)	1	7.90	0	0.00	1	2.13	1	1.60
TRACHEA, BRONCHUS, LUNG	0	0.00	1	3.67	0	0.00	2	6.21
BREAST (FEMALE)	0	-	0	-	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	7	1.94	2	0.41
BONES & JOINTS	3	1.46	2	0.70	4	0.92	3	0.51
BLADDER	0	0.00	0	0.00	0	0.00	1	2.72
BRAIN & OTHER C.N.S.	9	2.41	4	0.76	12	1.79	10	1.07

Age at diagnosis: 10 to 19

Duane Arnold (1974)
Benton, IA ; Linn, IA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	2.12	1.45	0.68
ALL CANCER, EXCL LEUK	1.09	1.28	1.19	1.01
HODGKIN'S DISEASE	0.71	1.59	1.59	0.71
OTHER LYMPHOMA	-	0.84	1.33	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.36	2.74	0.87	0.43
STOMACH	-	-	-	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	-	1.33	0.27	-
TRACHEA, BRONCHUS, LUNG	0.00	0.00	-	1.69
BREAST (FEMALE)	-	-	-	-
THYROID	-	4.73	-	-
BONES & JOINTS	2.09	1.80	0.63	0.73
BLADDER	-	0.00	-	-
BRAIN & OTHER C.N.S.	3.17	1.67	0.74	1.41

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.20(INC)

Age at diagnosis: 20 to 39

Duane Arnold (1974)
Benton, IA ; Linn, IA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	2	0.40	6	1.02	19	1.17	23	1.21
ALL CANCER, EXCL LEUK	128	0.91	182	1.12	376	1.07	429	1.05
HODGKIN'S DISEASE	10	0.85	17	1.24	31	1.23	25	0.84
OTHER LYMPHOMA	6	1.04	5	0.75	15	0.89	16	0.81
MULTIPLE MYELOMA	0	0.00	0	0.00	1	0.92	5	3.87
DIGESTIVE ORGANS	7	0.57	18	1.27	24	0.82	23	0.68
STOMACH	0	0.00	1	0.62	3	1.01	4	1.16
COLON & RECTUM	5	0.63	10	1.09	16	0.83	18	0.80
LIVER (PRIMARY)	1	0.97	3	2.50	1	0.90	0	0.00
TRACHEA, BRONCHUS, LUNG	5	0.98	6	1.03	6	0.67	10	0.96
BREAST (FEMALE)	16	0.96	12	0.63	76	1.24	75	1.07
THYROID	9	0.89	19	1.64	29	1.06	45	1.41
BONES & JOINTS	0	0.00	1	0.77	4	1.21	5	1.27
BLADDER	5	1.71	5	1.47	4	0.67	11	1.57
BRAIN & OTHER C.N.S.	8	1.28	12	1.64	18	0.90	26	1.10

Table 1-C.20(INC)

Age at diagnosis: 20 to 39

Duane Arnold (1974)
Benton, IA ; Linn, IA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.39	0.97	2.93	1.19
ALL CANCER, EXCL LEUK	0.81	1.02	1.18	0.94
HODGKIN'S DISEASE	0.69	1.46	1.45	0.68
OTHER LYMPHOMA	1.39	1.10	0.86	1.08
MULTIPLE MYELOMA	-	0.24	-	-
DIGESTIVE ORGANS	0.45	1.21	1.44	0.54
STOMACH	0.00	0.87	-	1.87
COLON & RECTUM	0.58	1.04	1.32	0.73
LIVER (PRIMARY)	0.39	-	0.93	0.00
TRACHEA, BRONCHUS, LUNG	0.95	0.70	0.68	0.93
BREAST (FEMALE)	1.52	1.16	1.29	1.70
THYROID	0.54	0.75	1.19	0.86
BONES & JOINTS	0.00	0.95	-	1.65
BLADDER	1.16	0.43	0.39	1.07
BRAIN & OTHER C.N.S.	0.78	0.82	0.70	0.67

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.20(INC)

Age at diagnosis: 40 to 59

Duane Arnold (1974)
Benton, IA ; Linn, IA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	13	0.81	17	0.79	47	1.29	46	0.96
ALL CANCER, EXCL LEUK	790	1.14	1001	1.08	1597	1.08	2065	1.06
HODGKIN'S DISEASE	12	1.59	9	0.90	17	1.82	14	1.16
OTHER LYMPHOMA	25	1.03	38	1.17	63	1.13	86	1.18
MULTIPLE MYELOMA	3	0.56	6	0.84	15	1.06	15	0.80
DIGESTIVE ORGANS	151	1.10	213	1.15	285	0.98	386	1.01
STOMACH	14	1.18	17	1.07	25	1.13	23	0.80
COLON & RECTUM	107	1.16	150	1.20	187	0.93	278	1.04
LIVER (PRIMARY)	1	0.30	4	0.90	10	1.84	7	0.99
TRACHEA, BRONCHUS, LUNG	118	1.20	143	1.08	253	1.09	336	1.10
BREAST (FEMALE)	113	1.07	137	0.97	331	1.13	434	1.13
THYROID	9	1.23	14	1.44	25	1.25	31	1.20
BONES & JOINTS	2	1.86	2	1.42	3	1.02	3	0.78
BLADDER	39	1.57	38	1.14	73	1.34	73	1.01
BRAIN & OTHER C.N.S.	15	1.05	20	1.05	45	1.33	44	1.00

Table 1-C.20(INC)

Age at diagnosis: 40 to 59

Duane Arnold (1974)
Benton, IA ; Linn, IA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.03	1.34	1.59	1.22
ALL CANCER, EXCL LEUK	1.06	1.02	0.95	0.98
HODGKIN'S DISEASE	1.77	1.57	1.14	1.29
OTHER LYMPHOMA	0.88	0.96	1.10	1.01
MULTIPLE MYELOMA	0.67	1.33	1.89	0.95
DIGESTIVE ORGANS	0.96	0.97	0.89	0.88
STOMACH	1.10	1.41	0.96	0.75
COLON & RECTUM	0.97	0.89	0.80	0.87
LIVER (PRIMARY)	0.33	1.86	6.13	1.10
TRACHEA, BRONCHUS, LUNG	1.11	0.99	0.91	1.02
BREAST (FEMALE)	1.10	1.00	1.06	1.16
THYROID	0.85	1.04	1.02	0.83
BONES & JOINTS	1.31	1.31	0.55	0.55
BLADDER	1.38	1.33	0.85	0.89
BRAIN & OTHER C.N.S.	1.00	1.33	1.27	0.95

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.20(INC)

Age at diagnosis: 60 plus

Duane Arnold (1974)
Benton, IA ; Linn, IA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	75	1.11	102	0.95	147	0.94	261	1.08
ALL CANCER, EXCL LEUK	1821	1.11	2607	1.01	4782	1.12	6858	1.04
HODGKIN'S DISEASE	7	0.84	8	0.61	11	0.89	13	0.69
OTHER LYMPHOMA	66	1.33	62	0.80	149	1.04	234	1.06
MULTIPLE MYELOMA	26	1.06	36	0.93	85	1.32	102	1.03
DIGESTIVE ORGANS	535	1.08	795	1.02	1333	1.10	1979	1.06
STOMACH	58	0.99	90	0.97	98	0.99	151	0.98
COLON & RECTUM	359	1.11	517	1.02	969	1.13	1433	1.08
LIVER (PRIMARY)	8	0.80	20	1.26	21	1.00	34	1.05
TRACHEA, BRONCHUS, LUNG	263	1.30	337	1.06	739	1.19	1012	1.07
BREAST (FEMALE)	163	1.06	251	1.06	590	1.12	859	1.07
THYROID	5	0.76	11	1.08	16	0.95	17	0.66
BONES & JOINTS	1	0.57	4	1.50	3	0.61	8	1.06
BLADDER	104	1.12	168	1.14	316	1.27	380	0.98
BRAIN & OTHER C.N.S.	24	1.82	14	0.69	47	1.14	82	1.31

Table 1-C.20(INC)

Age at diagnosis: 60 plus

Duane Arnold (1974)
Benton, IA ; Linn, IA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.17	0.87	0.85	1.14
ALL CANCER, EXCL LEUK	1.10**	1.08***	1.01	1.03
HODGKIN'S DISEASE	1.38	1.29	1.06	1.13
OTHER LYMPHOMA	1.66**	0.98	0.78	1.33*
MULTIPLE MYELOMA	1.14	1.28	1.25	1.11
DIGESTIVE ORGANS	1.06	1.04	1.02	1.04
STOMACH	1.02	1.01	1.00	1.01
COLON & RECTUM	1.09	1.05	1.02	1.06
LIVER (PRIMARY)	0.63	0.95	1.25	0.83
TRACHEA, BRONCHUS, LUNG	1.23*	1.11*	0.92	1.01
BREAST (FEMALE)	1.00	1.05	1.06	1.01
THYROID	0.70	1.44	1.25	0.61
BONES & JOINTS	0.38	0.58	1.07	0.71
BLADDER	0.98	1.30**	1.13	0.86
BRAIN & OTHER C.N.S.	2.64**	0.87	0.63	1.90*

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.20(INC)

Age at diagnosis: all

Duane Arnold (1974)
Benton, IA ; Linn, IA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SRR	OBS	SRR	OBS	SRR	OBS	SRR
LEUKEMIA & ALEUKEMIA	104	1.02	140	0.92	244	1.06	355	1.04
ALL CANCER, EXCL LEUK	2775	1.11	3839	1.03	6843	1.11	9444	1.05
HODGKIN'S DISEASE	32	1.02	41	0.98	73	1.29	66	0.89
OTHER LYMPHOMA	100	1.21	109	0.90	233	1.06	343	1.07
MULTIPLE MYELOMA	29	0.96	42	0.92	101	1.27	122	1.03
DIGESTIVE ORGANS	696	1.07	1028	1.04	1645	1.07	2391	1.04
STOMACH	72	1.01	108	0.98	126	1.02	178	0.96
COLON & RECTUM	471	1.11	678	1.06	1172	1.09	1729	1.07
LIVER (PRIMARY)	12	0.80	27	1.20	33	1.15	43	1.02
TRACHEA, BRONCHUS, LUNG	386	1.26	487	1.07	998	1.15	1360	1.07
BREAST (FEMALE)	292	1.06	400	1.01	997	1.13	1368	1.09
THYROID	23	0.92	44	1.34	77	1.13	95	1.07
BONES & JOINTS	6	0.94	9	1.02	15	0.91	21	0.93
BLADDER	149	1.23	211	1.14	393	1.27	465	1.00
BRAIN & OTHER C.N.S.	58	1.40	58	1.02	131	1.19	172	1.14

Table 1-C.20(INC)

Age at diagnosis: all

Duane Arnold (1974)
Benton, IA ; Linn, IA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.11	1.02	1.04	1.13
ALL CANCER, EXCL LEUK	1.08**	1.06***	1.00	1.02
HODGKIN'S DISEASE	1.04	1.45*	1.26	0.91
OTHER LYMPHOMA	1.34*	0.99	0.88	1.19
MULTIPLE MYELOMA	1.04	1.23	1.32	1.12
DIGESTIVE ORGANS	1.03	1.03	1.00	1.00
STOMACH	1.03	1.06	1.01	0.98
COLON & RECTUM	1.05	1.02	0.98	1.01
LIVER (PRIMARY)	0.67	1.13	1.44	0.85
TRACHEA, BRONCHUS, LUNG	1.18*	1.07	0.91	1.00
BREAST (FEMALE)	1.05	1.04	1.07	1.08
THYROID	0.69	1.06	1.23	0.80
BONES & JOINTS	0.92	0.98	0.97	0.91
BLADDER	1.08	1.27***	1.03	0.88
BRAIN & OTHER C.N.S.	1.37	1.04	0.85	1.12

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-C.21

Age at death: under 10

Hatch 1,2 (1974)
Appling, GA ; Toombs, GA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	10	1.56	19	0.85	1	0.83	5	1.25
ALL CANCER, EXCL LEUK	8	1.10	20	0.79	0	0.00	10	1.65
HODGKIN'S DISEASE	2	15.04	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	2	0.60	0	0.00	2	3.36
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	0	0.00	2	10.71
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	2	0.70	11	1.10	0	0.00	2	0.95
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	1.57	0	0.00	0	0.00

Table 1-C.21

Age at death: under 10

Hatch 1,2 (1974)
Appling, GA ; Toombs, GA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.84	0.66	0.53	1.47
ALL CANCER, EXCL LEUK	1.39	0.00	0.00	2.09
HODGKIN'S DISEASE	-	-	0.00	-
OTHER LYMPHOMA	0.00	0.00	-	5.60
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	0.00	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.64	0.00	0.00	0.86
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.21

Age at death: 10 to 19

Hatch 1,2 (1974)
Appling, GA ; Toombs, GA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1	0.28	7	0.56	0	0.00	5	1.21
ALL CANCER, EXCL LEUK	5	0.71	26	1.04	5	2.25	5	0.64
HODGKIN'S DISEASE	0	0.00	2	0.79	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	1	0.28	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	2.48	0	0.00	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	1	50.61	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.78	4	0.87	1	2.60	1	0.74
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	3	1.74	8	1.33	2	3.52	3	1.54
BENIGN & UNSPEC NEOPLASMS	1	6.74	0	0.00	0	0.00	0	0.00

Table 1-C.21

Age at death: 10 to 19

Hatch 1,2 (1974)
Appling, GA ; Toombs, GA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.50	0.00	0.00	2.16
ALL CANCER, EXCL LEUK	0.68	3.52	3.17	0.62
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	0.00	-	-	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	0.00	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.90	3.51	3.33	0.85
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.31	2.29	2.02	1.16
BENIGN & UNSPEC NEOPLASMS	-	-	0.00	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.21

Age at death: 20 to 39

Hatch 1,2 (1974)
Appling, GA ; Toombs, GA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8	1.97	13	0.88	3	1.52	4	0.58
ALL CANCER, EXCL LEUK	40	1.06	135	0.98	24	1.53	51	0.96
HODGKIN'S DISEASE	0	0.00	7	0.62	4	4.42	5	1.58
OTHER LYMPHOMA	4	1.99	3	0.41	1	0.99	3	0.85
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	2	7.53
DIGESTIVE ORGANS	8	1.20	26	1.07	1	0.41	7	0.84
STOMACH	4	2.75	10	1.87	1	2.36	2	1.37
COLON & RECTUM	3	0.97	6	0.53	0	0.00	4	1.03
LIVER (PRIMARY)	1	1.36	1	0.37	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	2	0.68	6	0.57	3	1.98	6	1.17
BREAST (FEMALE)	2	0.38	17	0.89	3	1.15	7	0.83
THYROID	1	8.00	1	2.20	0	0.00	0	0.00
BONES & JOINTS	2	2.91	3	1.19	0	0.00	1	0.95
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	5	1.65	11	1.00	2	1.45	3	0.63
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-C.21

Age at death: 20 to 39

Hatch 1,2 (1974)
Appling, GA ; Toombs, GA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	2.24	2.62	0.77	0.66
ALL CANCER, EXCL LEUK	1.08	1.59	1.44	0.98
HODGKIN'S DISEASE	0.00	2.80	-	2.55
OTHER LYMPHOMA	4.85	1.16	0.50	2.07
MULTIPLE MYELOMA	-	0.00	-	-
DIGESTIVE ORGANS	1.12	0.49	0.34	0.79
STOMACH	1.47	1.72	0.86	0.73
COLON & RECTUM	1.83	0.00	0.00	1.94
LIVER (PRIMARY)	3.68	-	0.00	0.00
TRACHEA, BRONCHUS, LUNG	1.19	1.69	2.91	2.05
BREAST (FEMALE)	0.43	1.39	3.03	0.93
THYROID	3.64	-	0.00	0.00
BONES & JOINTS	2.45	0.00	0.00	0.80
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.65	2.30	0.88	0.63
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.21

Age at death: 40 to 59

Hatch 1,2 (1974)
Appling, GA ; Toombs, GA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	11	1.14	34	1.01	3	0.75	8	0.57
ALL CANCER, EXCL LEUK	269	0.91	938	0.91	128	0.94	454	0.94
HODGKIN'S DISEASE	2	0.54	4	0.31	1	1.26	0	0.00
OTHER LYMPHOMA	8	0.98	17	0.60	4	1.03	8	0.59
MULTIPLE MYELOMA	4	1.11	10	0.81	3	1.60	4	0.61
DIGESTIVE ORGANS	69	0.84	208	0.73	21	0.69	89	0.83
STOMACH	15	0.87	49	0.83	1	0.24	16	1.11
COLON & RECTUM	21	0.65	69	0.62	5	0.39	28	0.63
LIVER (PRIMARY)	7	0.83	22	0.76	1	0.55	5	0.78
TRACHEA, BRONCHUS, LUNG	55	0.95	215	1.06	45	1.09	171	1.17
BREAST (FEMALE)	23	0.59	101	0.75	9	0.49	41	0.64
THYROID	0	0.00	2	0.61	0	0.00	1	1.03
BONES & JOINTS	3	1.77	5	0.85	0	0.00	1	0.76
BLADDER	6	1.26	12	0.73	1	0.71	3	0.60
BRAIN & OTHER C.N.S.	8	0.83	36	1.07	4	0.91	17	1.11
BENIGN & UNSPEC NEOPLASMS	0	0.00	4	1.04	0	0.00	2	0.60

Table 1-C.21

Age at death: 40 to 59

Hatch 1,2 (1974)
Appling, GA ; Toombs, GA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.13	1.32	0.66	0.56
ALL CANCER, EXCL LEUK	1.00	1.00	1.03	1.03
HODGKIN'S DISEASE	1.74	-	2.33	0.00
OTHER LYMPHOMA	1.63	1.75	1.05	0.98
MULTIPLE MYELOMA	1.37	2.62	1.44	0.75
DIGESTIVE ORGANS	1.15	0.83	0.82	1.14
STOMACH	1.05	0.22	0.28	1.34
COLON & RECTUM	1.05	0.62	0.60	1.02
LIVER (PRIMARY)	1.09	0.71	0.66	1.03
TRACHEA, BRONCHUS, LUNG	0.90	0.93	1.15	1.10
BREAST (FEMALE)	0.79	0.77	0.83	0.85
THYROID	0.00	0.00	-	1.69
BONES & JOINTS	2.08	0.00	0.00	0.89
BLADDER	1.73	1.18	0.56	0.82
BRAIN & OTHER C.N.S.	0.78	0.82	1.10	1.04
BENIGN & UNSPEC NEOPLASMS	0.00	0.00	-	0.58

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.21

Age at death: 60 plus

Hatch 1,2 (1974)
Appling, GA ; Toombs, GA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	23	0.98	66	0.87	14	0.85	65	1.17
ALL CANCER, EXCL LEUK	484	0.74	1734	0.81	398	0.84	1428	0.89
HODGKIN'S DISEASE	4	1.06	9	0.73	2	1.42	2	0.42
OTHER LYMPHOMA	10	0.66	53	1.08	6	0.45	31	0.68
MULTIPLE MYELOMA	3	0.34	16	0.57	8	0.89	30	0.99
DIGESTIVE ORGANS	133	0.53	530	0.65	96	0.67	370	0.77
STOMACH	26	0.46	113	0.61	16	0.81	47	0.71
COLON & RECTUM	46	0.42	200	0.57	43	0.63	169	0.74
LIVER (PRIMARY)	13	0.53	59	0.75	8	1.09	20	0.81
TRACHEA, BRONCHUS, LUNG	81	0.79	348	1.02	134	1.14	425	1.05
BREAST (FEMALE)	21	0.42	83	0.54	22	0.62	72	0.61
THYROID	1	0.38	5	0.60	2	1.63	4	0.98
BONES & JOINTS	3	0.86	18	1.59	0	0.00	8	2.24
BLADDER	12	0.53	54	0.72	11	0.83	32	0.71
BRAIN & OTHER C.N.S.	6	0.80	13	0.53	3	0.35	31	1.05
BENIGN & UNSPEC NEOPLASMS	1	0.44	5	0.70	1	0.32	15	1.44

Table 1-C.21

Age at death: 60 plus

Hatch 1,2 (1974)
Appling, GA ; Toombs, GA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.13	0.73	0.87	1.34
ALL CANCER, EXCL LEUK	0.91	0.94	1.14	1.10**
HODGKIN'S DISEASE	1.45	3.38	1.34	0.58
OTHER LYMPHOMA	0.61	0.66	0.68	0.63*
MULTIPLE MYELOMA	0.60	0.90	2.62	1.74
DIGESTIVE ORGANS	0.82*	0.87	1.26	1.18*
STOMACH	0.75	1.14	1.76	1.16
COLON & RECTUM	0.74	0.85	1.50	1.30*
LIVER (PRIMARY)	0.71	1.35	2.06	1.08
TRACHEA, BRONCHUS, LUNG	0.77*	1.09	1.44*	1.03
BREAST (FEMALE)	0.78	1.02	1.48	1.13
THYROID	0.63	1.66	4.29	1.63
BONES & JOINTS	0.54	0.00	0.00	1.41
BLADDER	0.74	1.17	1.57	0.99
BRAIN & OTHER C.N.S.	1.51	0.33	0.44	1.98*
BENIGN & UNSPEC NEOPLASMS	0.63	0.22	0.73	2.06

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.21

Age at death: all

Hatch 1,2 (1974)
Appling, GA ; Toombs, GA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	53	1.13	139	0.87	21	0.85	87	1.03
ALL CANCER, EXCL LEUK	806	0.80	2853	0.85	555	0.88	1948	0.91
HODGKIN'S DISEASE	8	0.70	22	0.56	7	2.15	7	0.63
OTHER LYMPHOMA	22	0.81	76	0.83	11	0.58	44	0.68
MULTIPLE MYELOMA	7	0.56	26	0.63	11	1.00	36	0.97
DIGESTIVE ORGANS	211	0.62	764	0.68	118	0.67	466	0.78
STOMACH	45	0.60	172	0.69	18	0.74	65	0.79
COLON & RECTUM	70	0.48	275	0.58	48	0.58	201	0.72
LIVER (PRIMARY)	21	0.62	82	0.74	9	0.94	25	0.77
TRACHEA, BRONCHUS, LUNG	138	0.85	569	1.03	183	1.14	602	1.08
BREAST (FEMALE)	46	0.48	201	0.65	34	0.60	120	0.63
THYROID	2	0.53	8	0.66	2	1.29	5	0.96
BONES & JOINTS	9	1.22	30	1.19	1	0.46	13	1.74
BLADDER	18	0.65	66	0.72	12	0.81	35	0.70
BRAIN & OTHER C.N.S.	24	0.97	79	0.93	11	0.71	56	1.04
BENIGN & UNSPEC NEOPLASMS	2	0.50	10	0.76	1	0.21	17	1.08

Table 1-C.21

Age at death: all

Hatch 1,2 (1974)
Appling, GA ; Toombs, GA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.30	0.83	0.75	1.18
ALL CANCER, EXCL LEUK	0.94	0.97	1.10	1.07*
HODGKIN'S DISEASE	1.25	3.41*	3.07	1.13
OTHER LYMPHOMA	0.98	0.85	0.72	0.82
MULTIPLE MYELOMA	0.89	1.03	1.79	1.54
DIGESTIVE ORGANS	0.91	0.86	1.08	1.15*
STOMACH	0.87	0.94	1.23	1.14
COLON & RECTUM	0.83	0.81	1.21	1.24*
LIVER (PRIMARY)	0.84	1.22	1.52	1.04
TRACHEA, BRONCHUS, LUNG	0.83*	1.06	1.34**	1.05
BREAST (FEMALE)	0.74	0.95	1.25	0.97
THYROID	0.80	1.34	2.43	1.45
BONES & JOINTS	1.03	0.26	0.38	1.46
BLADDER	0.90	1.16	1.25	0.97
BRAIN & OTHER C.N.S.	1.04	0.68	0.73	1.12
BENIGN & UNSPEC NEOPLASMS	0.66	0.19	0.42	1.42

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.22

Age at death: under 10

Peach Bottom 1,2,3 (1974)
Lancaster, PA ; York, PA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	111	1.05	234	0.97	21	1.11	25	0.72
ALL CANCER, EXCL LEUK	88	0.81	275	1.12	28	1.04	39	0.80
HODGKIN'S DISEASE	6	3.60	6	1.54	0	0.00	0	0.00
OTHER LYMPHOMA	10	0.68	28	0.83	2	0.75	4	0.82
MULTIPLE MYELOMA	0	0.00	0	0.00	1	45.02	0	0.00
DIGESTIVE ORGANS	5	0.90	19	1.51	2	1.39	4	1.56
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	3	5.20	2	1.49	0	0.00	1	4.99
LIVER (PRIMARY)	1	0.30	11	1.47	1	0.89	3	1.50
TRACHEA, BRONCHUS, LUNG	2	2.19	2	0.97	0	0.00	0	0.00
BREAST (FEMALE)	1	7.83	2	6.69	0	0.00	0	0.00
THYROID	0	0.00	1	3.99	0	0.00	0	0.00
BONES & JOINTS	4	1.01	16	1.76	0	0.00	1	0.62
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	27	0.62	109	1.10	9	0.94	16	0.92
BENIGN & UNSPEC NEOPLASMS	6	2.10	3	0.54	2	0.84	8	1.85

Table 1-C.22

Age at death: under 10

Peach Bottom 1,2,3 (1974)
Lancaster, PA ; York, PA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.08	1.54	1.06	0.74
ALL CANCER, EXCL LEUK	0.72**	1.30	1.28	0.71
HODGKIN'S DISEASE	2.34	-	0.00	0.00
OTHER LYMPHOMA	0.82	0.91	1.10	0.99
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.60	0.89	1.54	1.03
STOMACH	-	-	-	-
COLON & RECTUM	3.49	0.00	0.00	3.35
LIVER (PRIMARY)	0.20	0.59	2.97	1.02
TRACHEA, BRONCHUS, LUNG	2.26	-	0.00	0.00
BREAST (FEMALE)	1.17	-	0.00	0.00
THYROID	0.00	-	-	0.00
BONES & JOINTS	0.57	0.00	0.00	0.35
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.56**	1.02	1.52	0.84
BENIGN & UNSPEC NEOPLASMS	3.89	0.45	0.40	3.43

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.22

Age at death: 10 to 19

Peach Bottom 1,2,3 (1974)
Lancaster, PA ; York, PA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	45	0.87	104	0.85	16	0.81	36	0.93
ALL CANCER, EXCL LEUK	92	0.94	244	1.05	29	0.83	55	0.80
HODGKIN'S DISEASE	12	1.19	25	1.04	0	0.00	3	0.67
OTHER LYMPHOMA	17	1.18	41	1.20	3	0.60	6	0.60
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	5	1.10	14	1.28	2	1.21	4	1.23
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	8	1.96	1	1.89	1	0.96
LIVER (PRIMARY)	3	1.98	3	0.84	1	1.31	1	0.67
TRACHEA, BRONCHUS, LUNG	0	0.00	4	1.49	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	3	4.86	0	0.00	1	7.61
BONES & JOINTS	13	0.71	43	0.98	4	0.64	11	0.89
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	19	0.78	52	0.90	9	0.99	12	0.68
BENIGN & UNSPEC NEOPLASMS	5	2.19	11	2.23	2	1.27	6	1.89

Table 1-C.22

Age at death: 10 to 19

Peach Bottom 1,2,3 (1974)
Lancaster, PA ; York, PA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.02	0.87	0.93	1.09
ALL CANCER, EXCL LEUK	0.90	1.04	0.88	0.76
HODGKIN'S DISEASE	1.14	0.00	0.00	0.64
OTHER LYMPHOMA	0.98	1.00	0.51	0.50
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.86	0.98	1.10	0.96
STOMACH	-	-	-	-
COLON & RECTUM	0.00	1.97	-	0.49
LIVER (PRIMARY)	2.36	1.96	0.66	0.80
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	0.00	0.00	-	1.57
BONES & JOINTS	0.72	0.72	0.90	0.91
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.87	1.46	1.27	0.76
BENIGN & UNSPEC NEOPLASMS	0.98	0.67	0.58	0.85

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.22

Age at death: 20 to 39

Peach Bottom 1,2,3 (1974)
Lancaster, PA ; York, PA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	74	0.97	162	0.90	39	1.04	69	1.00
ALL CANCER, EXCL LEUK	644	0.97	1628	1.02	268	0.96	556	1.08
HODGKIN'S DISEASE	79	1.26	162	1.11	24	1.31	32	0.94
OTHER LYMPHOMA	35	0.92	89	1.00	23	1.19	38	1.07
MULTIPLE MYELOMA	3	1.10	4	0.60	1	0.84	3	1.39
DIGESTIVE ORGANS	106	0.97	298	1.12	30	0.76	76	1.05
STOMACH	11	0.50	46	0.85	4	0.63	10	0.87
COLON & RECTUM	68	1.24	157	1.18	16	0.82	42	1.18
LIVER (PRIMARY)	10	0.94	38	1.48	2	0.49	8	1.07
TRACHEA, BRONCHUS, LUNG	42	0.81	111	0.91	17	0.65	40	0.84
BREAST (FEMALE)	89	0.97	230	1.02	46	1.06	86	1.07
THYROID	4	1.81	6	1.14	2	2.90	2	1.58
BONES & JOINTS	15	1.21	34	1.17	9	1.53	16	1.46
BLADDER	2	0.74	6	0.91	1	1.16	2	1.27
BRAIN & OTHER C.N.S.	44	0.73	142	0.99	23	0.83	60	1.18
BENIGN & UNSPEC NEOPLASMS	6	1.15	9	0.88	8	1.57	7	0.74

Table 1-C.22

Age at death: 20 to 39

Peach Bottom 1,2,3 (1974)
Lancaster, PA ; York, PA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.08	1.04	1.07	1.11
ALL CANCER, EXCL LEUK	0.95	0.89	0.99	1.06
HODGKIN'S DISEASE	1.14	1.39	1.04	0.85
OTHER LYMPHOMA	0.92	1.11	1.29	1.07
MULTIPLE MYELOMA	1.83	0.60	0.76	2.32
DIGESTIVE ORGANS	0.87	0.72	0.78	0.94
STOMACH	0.59	0.72	1.26	1.02
COLON & RECTUM	1.05	0.69	0.66	1.00
LIVER (PRIMARY)	0.64	0.46	0.52	0.72
TRACHEA, BRONCHUS, LUNG	0.89	0.77	0.80	0.92
BREAST (FEMALE)	0.95	0.99	1.09	1.05
THYROID	1.59	1.84	1.60	1.39
BONES & JOINTS	1.03	1.05	1.26	1.25
BLADDER	0.81	0.91	1.57	1.40
BRAIN & OTHER C.N.S.	0.74	0.70	1.14	1.19
BENIGN & UNSPEC NEOPLASMS	1.31	2.12	1.37	0.84

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.22

Age at death: 40 to 59

Peach Bottom 1,2,3 (1974)
Lancaster, PA ; York, PA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	174	0.95	467	0.98	75	0.95	178	1.01
ALL CANCER, EXCL LEUK	5074	0.98	13288	0.99	2411	0.95	5529	0.96
HODGKIN'S DISEASE	71	0.98	207	1.11	18	1.13	44	1.26
OTHER LYMPHOMA	175	1.08	374	0.90	77	0.95	195	1.07
MULTIPLE MYELOMA	54	0.97	132	0.92	25	0.81	60	0.85
DIGESTIVE ORGANS	1355	0.98	3723	1.05	557	1.04	1304	1.07
STOMACH	195	0.77	740	1.12	57	0.83	163	1.05
COLON & RECTUM	688	1.13	1701	1.09	292	1.19	669	1.19
LIVER (PRIMARY)	140	1.04	400	1.15	24	0.83	56	0.85
TRACHEA, BRONCHUS, LUNG	890	0.85	2340	0.87	627	0.81	1494	0.84
BREAST (FEMALE)	735	0.98	1945	1.02	369	1.05	768	0.96
THYROID	11	0.65	55	1.26	4	0.75	12	1.00
BONES & JOINTS	33	1.11	86	1.12	10	1.45	16	1.02
BLADDER	64	0.82	236	1.17	29	1.06	61	0.97
BRAIN & OTHER C.N.S.	182	0.91	472	0.92	88	0.95	189	0.91
BENIGN & UNSPEC NEOPLASMS	25	1.29	49	1.02	15	0.88	38	0.97

Table 1-C.22

Age at death: 40 to 59

Peach Bottom 1,2,3 (1974)
Lancaster, PA ; York, PA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.97	0.94	1.00	1.03
ALL CANCER, EXCL LEUK	0.99	0.99	0.97	0.97*
HODGKIN'S DISEASE	0.88	0.90	1.15	1.14
OTHER LYMPHOMA	1.20	0.89	0.88	1.19*
MULTIPLE MYELOMA	1.05	0.95	0.84	0.92
DIGESTIVE ORGANS	0.93	0.97	1.06	1.02
STOMACH	0.69***	0.79	1.08	0.94
COLON & RECTUM	1.04	1.00	1.05	1.09*
LIVER (PRIMARY)	0.90	0.98	0.80	0.74*
TRACHEA, BRONCHUS, LUNG	0.98	0.96	0.95	0.97
BREAST (FEMALE)	0.96	1.09	1.07	0.94
THYROID	0.52*	0.75	1.15	0.79
BONES & JOINTS	0.99	1.42	1.31	0.91
BLADDER	0.70*	1.09	1.29	0.83
BRAIN & OTHER C.N.S.	0.99	1.04	1.04	0.99
BENIGN & UNSPEC NEOPLASMS	1.26	0.91	0.68	0.95

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.22

Age at death: 60 plus

Peach Bottom 1,2,3 (1974)
Lancaster, PA ; York, PA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	514	0.93	1223	0.92	344	1.00	764	0.99
ALL CANCER, EXCL LEUK	13755	0.97	35352	1.03	9342	1.04	20567	1.00
HODGKIN'S DISEASE	77	0.88	224	1.04	30	1.04	56	0.84
OTHER LYMPHOMA	387	1.10	829	0.98	307	1.08	644	1.00
MULTIPLE MYELOMA	152	0.90	385	0.94	186	1.21	376	1.08
DIGESTIVE ORGANS	5294	0.95	14658	1.10	2892	1.07	6405	1.05
STOMACH	845	0.72	3345	1.17	290	0.85	905	1.18
COLON & RECTUM	2789	1.11	6610	1.10	1671	1.22	3268	1.06
LIVER (PRIMARY)	507	0.94	1513	1.16	93	0.73	288	1.00
TRACHEA, BRONCHUS, LUNG	1713	0.78	4852	0.89	1899	0.85	4877	0.94
BREAST (FEMALE)	1203	1.09	2425	0.96	813	1.17	1672	1.05
THYROID	52	0.89	138	1.00	33	1.35	66	1.21
BONES & JOINTS	82	1.05	207	1.09	24	1.13	46	0.96
BLADDER	577	1.08	1473	1.15	287	1.03	665	1.08
BRAIN & OTHER C.N.S.	156	0.93	342	0.83	155	0.89	374	0.92
BENIGN & UNSPEC NEOPLASMS	49	1.14	120	1.22	68	1.16	133	1.01

Table 1-C.22

Age at death: 60 plus

Peach Bottom 1,2,3 (1974)
Lancaster, PA ; York, PA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.01	1.01	1.08	1.08
ALL CANCER, EXCL LEUK	0.94***	1.04**	1.07***	0.97**
HODGKIN'S DISEASE	0.85	1.24	1.18	0.81
OTHER LYMPHOMA	1.12	1.08	0.98	1.02
MULTIPLE MYELOMA	0.96	1.12	1.34**	1.15
DIGESTIVE ORGANS	0.86***	1.02	1.13***	0.95**
STOMACH	0.62***	0.72***	1.18*	1.01
COLON & RECTUM	1.01	1.15***	1.10**	0.96
LIVER (PRIMARY)	0.81***	0.73**	0.78*	0.86*
TRACHEA, BRONCHUS, LUNG	0.88***	0.90***	1.09*	1.06*
BREAST (FEMALE)	1.14***	1.11*	1.07	1.09**
THYROID	0.89	1.12	1.52	1.21
BONES & JOINTS	0.96	1.18	1.08	0.88
BLADDER	0.94	0.95	0.95	0.94
BRAIN & OTHER C.N.S.	1.12	0.97	0.96	1.11
BENIGN & UNSPEC NEOPLASMS	0.93	1.15	1.02	0.83

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.22

Age at death: all

Peach Bottom 1,2,3 (1974)
Lancaster, PA ; York, PA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	918	0.95	2190	0.93	495	0.99	1072	0.99
ALL CANCER, EXCL LEUK	19653	0.97	50787	1.02	12078	1.02	26746	0.99
HODGKIN'S DISEASE	245	1.05	624	1.09	72	1.10	135	0.96
OTHER LYMPHOMA	624	1.08	1361	0.96	412	1.05	887	1.01
MULTIPLE MYELOMA	209	0.92	521	0.93	213	1.14	439	1.04
DIGESTIVE ORGANS	6765	0.96	18712	1.09	3483	1.06	7793	1.05
STOMACH	1051	0.73	4131	1.16	351	0.84	1078	1.15
COLON & RECTUM	3548	1.11	8478	1.10	1980	1.21	3981	1.08
LIVER (PRIMARY)	661	0.96	1965	1.17	121	0.74	356	0.97
TRACHEA, BRONCHUS, LUNG	2647	0.81	7309	0.89	2543	0.84	6411	0.91
BREAST (FEMALE)	2028	1.04	4602	0.99	1228	1.13	2526	1.02
THYROID	67	0.86	203	1.08	39	1.28	81	1.19
BONES & JOINTS	147	1.03	386	1.11	47	1.14	90	1.02
BLADDER	643	1.05	1715	1.15	317	1.03	728	1.07
BRAIN & OTHER C.N.S.	428	0.86	1117	0.91	284	0.91	651	0.93
BENIGN & UNSPEC NEOPLASMS	91	1.25	192	1.15	95	1.12	192	1.02

Table 1-C.22

Age at death: all

Peach Bottom 1,2,3 (1974)
Lancaster, PA ; York, PA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.02	1.00	1.04	1.06
ALL CANCER, EXCL LEUK	0.95***	1.03	1.05***	0.97***
HODGKIN'S DISEASE	0.96	1.15	1.05	0.88
OTHER LYMPHOMA	1.13*	1.04	0.97	1.05
MULTIPLE MYELOMA	0.99	1.10	1.24*	1.12
DIGESTIVE ORGANS	0.88***	1.01	1.10***	0.96**
STOMACH	0.63***	0.73***	1.15*	0.99
COLON & RECTUM	1.01	1.12***	1.09**	0.98
LIVER (PRIMARY)	0.82***	0.76*	0.77*	0.83**
TRACHEA, BRONCHUS, LUNG	0.91***	0.92***	1.04	1.02
BREAST (FEMALE)	1.05*	1.11**	1.09*	1.03
THYROID	0.80	1.08	1.49	1.10
BONES & JOINTS	0.93	1.12	1.11	0.92
BLADDER	0.91	0.96	0.98	0.93
BRAIN & OTHER C.N.S.	0.95	0.98	1.06	1.02
BENIGN & UNSPEC NEOPLASMS	1.09	1.10	0.90	0.89

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.23

Age at death: under 10

Rancho Seco 1 (1974)

Amador, CA ; Sacramento, CA ; San Joaquin, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	181	1.20	242	1.10	47	1.52	57	1.21
ALL CANCER, EXCL LEUK	146	0.92	256	1.12	52	1.13	78	1.12
HODGKIN'S DISEASE	5	2.01	1	0.28	1	4.39	0	0.00
OTHER LYMPHOMA	29	1.36	43	1.40	3	0.68	4	0.59
MULTIPLE MYELOMA	0	0.00	0	0.00	1	25.44	0	0.00
DIGESTIVE ORGANS	5	0.62	9	0.77	4	1.55	7	1.83
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	1	4.48	1	3.10
LIVER (PRIMARY)	3	0.63	8	1.16	3	1.54	6	2.06
TRACHEA, BRONCHUS, LUNG	1	0.76	3	1.56	0	0.00	2	2.48
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	1	6.87	0	0.00	0	0.00	0	0.00
BONES & JOINTS	4	0.70	9	1.08	3	2.11	1	0.46
BLADDER	2	2.25	2	1.54	1	8.25	0	0.00
BRAIN & OTHER C.N.S.	61	0.96	99	1.08	13	0.81	25	1.03
BENIGN & UNSPEC NEOPLASMS	3	0.67	4	0.62	3	0.73	9	1.47

Table 1-C.23

Age at death: under 10

Rancho Seco 1 (1974)

Amador, CA ; Sacramento, CA ; San Joaquin, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.09	1.26	1.27	1.10
ALL CANCER, EXCL LEUK	0.82	1.01	1.23	1.00
HODGKIN'S DISEASE	7.18	-	2.18	0.00
OTHER LYMPHOMA	0.97	1.15	0.50	0.42
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.81	0.85	2.50	2.38
STOMACH	-	-	-	-
COLON & RECTUM	-	1.45	-	-
LIVER (PRIMARY)	0.54	0.75	2.44	1.78
TRACHEA, BRONCHUS, LUNG	0.49	0.00	0.00	1.59
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	0.00	-
BONES & JOINTS	0.65	4.59	3.01	0.43
BLADDER	1.46	-	3.67	0.00
BRAIN & OTHER C.N.S.	0.89	0.79	0.84	0.95
BENIGN & UNSPEC NEOPLASMS	1.08	0.50	1.09	2.37

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.23

Age at death: 10 to 19

Rancho Seco 1 (1974)
Amador, CA ; Sacramento, CA ; San Joaquin, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	94	1.23	133	1.20	38	1.17	60	1.24
ALL CANCER, EXCL LEUK	160	1.10	231	1.10	56	0.95	86	0.99
HODGKIN'S DISEASE	18	1.24	25	1.18	3	0.78	7	1.26
OTHER LYMPHOMA	18	0.84	30	0.97	7	0.84	11	0.89
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	10	1.43	5	0.50	1	0.32	2	0.45
STOMACH	1	2.02	0	0.00	0	0.00	0	0.00
COLON & RECTUM	3	1.14	1	0.27	1	0.94	0	0.00
LIVER (PRIMARY)	2	0.84	3	0.89	0	0.00	1	0.50
TRACHEA, BRONCHUS, LUNG	1	0.62	2	0.85	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	1	2.35	0	0.00	0	0.00
THYROID	1	2.69	0	0.00	0	0.00	0	0.00
BONES & JOINTS	24	0.89	42	1.07	9	0.86	21	1.36
BLADDER	0	0.00	2	10.64	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	42	1.16	60	1.14	14	0.93	26	1.16
BENIGN & UNSPEC NEOPLASMS	4	1.02	4	0.74	5	1.85	6	1.52

Table 1-C.23

Age at death: 10 to 19

Rancho Seco 1 (1974)
Amador, CA ; Sacramento, CA ; San Joaquin, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.03	0.94	0.95	1.03
ALL CANCER, EXCL LEUK	1.00	0.96	0.86	0.90
HODGKIN'S DISEASE	1.05	0.62	0.63	1.07
OTHER LYMPHOMA	0.87	0.94	1.00	0.92
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	2.86	0.71	0.22	0.90
STOMACH	-	-	0.00	-
COLON & RECTUM	4.22	-	0.82	0.00
LIVER (PRIMARY)	0.94	0.00	0.00	0.56
TRACHEA, BRONCHUS, LUNG	0.73	-	0.00	0.00
BREAST (FEMALE)	0.00	-	-	0.00
THYROID	-	-	0.00	-
BONES & JOINTS	0.83	0.63	0.97	1.27
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	1.02	0.80	0.80	1.02
BENIGN & UNSPEC NEOPLASMS	1.38	1.22	1.81	2.05

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.23

Age at death: 20 to 39

Rancho Seco 1 (1974)

Amador, CA ; Sacramento, CA ; San Joaquin, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	102	0.87	167	1.03	91	1.34	103	1.03
ALL CANCER, EXCL LEUK	996	0.96	1364	0.95	511	1.01	772	0.99
HODGKIN'S DISEASE	73	0.78	108	0.83	31	0.97	46	0.96
OTHER LYMPHOMA	55	0.94	86	1.06	41	1.19	47	0.90
MULTIPLE MYELOMA	4	0.87	7	1.12	0	0.00	2	0.55
DIGESTIVE ORGANS	164	0.93	195	0.81	77	1.02	108	0.92
STOMACH	46	1.26	44	0.89	11	0.86	19	0.97
COLON & RECTUM	73	0.86	94	0.80	35	0.98	49	0.88
LIVER (PRIMARY)	12	0.66	14	0.58	14	1.60	11	0.85
TRACHEA, BRONCHUS, LUNG	86	1.01	134	1.15	52	1.11	73	0.97
BREAST (FEMALE)	128	0.90	183	0.92	62	0.79	140	1.13
THYROID	4	1.17	5	1.06	1	0.81	3	1.57
BONES & JOINTS	16	0.84	21	0.80	17	1.59	11	0.72
BLADDER	3	0.67	2	0.33	1	0.65	3	1.23
BRAIN & OTHER C.N.S.	99	1.09	118	0.93	49	1.02	69	0.94
BENIGN & UNSPEC NEOPLASMS	7	0.76	11	0.85	11	1.17	17	1.21

Table 1-C.23

Age at death: 20 to 39

Rancho Seco 1 (1974)

Amador, CA ; Sacramento, CA ; San Joaquin, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.84	1.30	1.54**	1.00
ALL CANCER, EXCL LEUK	1.01	1.02	1.05	1.04
HODGKIN'S DISEASE	0.94	1.01	1.24	1.16
OTHER LYMPHOMA	0.89	1.32	1.27	0.85
MULTIPLE MYELOMA	0.78	0.00	0.00	0.49
DIGESTIVE ORGANS	1.15	1.11	1.10	1.14
STOMACH	1.42	0.89	0.68	1.09
COLON & RECTUM	1.08	1.11	1.14	1.10
LIVER (PRIMARY)	1.14	1.88	2.42*	1.47
TRACHEA, BRONCHUS, LUNG	0.88	1.14	1.10	0.84
BREAST (FEMALE)	0.98	0.70*	0.88	1.23
THYROID	1.10	0.52	0.69	1.48
BONES & JOINTS	1.05	2.21	1.89	0.90
BLADDER	2.03	0.53	0.97	3.73
BRAIN & OTHER C.N.S.	1.17	1.09	0.94	1.01
BENIGN & UNSPEC NEOPLASMS	0.89	0.97	1.54	1.42

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.23

Age at death: 40 to 59

Rancho Seco 1 (1974)

Amador, CA ; Sacramento, CA ; San Joaquin, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	256	0.97	345	0.96	128	0.95	193	1.01
ALL CANCER, EXCL LEUK	7532	0.98	9707	0.94	4442	0.98	6021	0.95
HODGKIN'S DISEASE	103	0.99	115	0.81	23	0.87	29	0.76
OTHER LYMPHOMA	240	1.03	312	0.98	152	1.14	191	0.99
MULTIPLE MYELOMA	77	0.88	118	1.03	59	0.99	65	0.80
DIGESTIVE ORGANS	1960	0.95	2389	0.88	893	0.91	1253	0.92
STOMACH	389	0.98	472	0.92	147	1.12	180	1.00
COLON & RECTUM	784	0.91	965	0.83	358	0.84	502	0.84
LIVER (PRIMARY)	201	1.01	224	0.86	47	0.81	86	1.10
TRACHEA, BRONCHUS, LUNG	1634	1.00	2135	0.98	1392	1.00	1897	0.98
BREAST (FEMALE)	993	0.98	1361	0.97	605	1.01	843	0.99
THYROID	8	0.34	31	0.96	8	0.88	11	0.85
BONES & JOINTS	26	0.61	50	0.87	8	0.65	10	0.58
BLADDER	120	1.02	159	1.03	40	0.84	67	1.01
BRAIN & OTHER C.N.S.	288	1.02	369	0.95	158	1.05	209	0.96
BENIGN & UNSPEC NEOPLASMS	27	0.82	49	1.10	32	1.04	51	1.20

Table 1-C.23

Age at death: 40 to 59

Rancho Seco 1 (1974)

Amador, CA ; Sacramento, CA ; San Joaquin, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.01	0.94	0.98	1.05
ALL CANCER, EXCL LEUK	1.04**	1.03	1.00	1.01
HODGKIN'S DISEASE	1.22	1.14	0.88	0.94
OTHER LYMPHOMA	1.05	1.15	1.11	1.01
MULTIPLE MYELOMA	0.85	1.24	1.13	0.78
DIGESTIVE ORGANS	1.08**	0.99	0.96	1.05
STOMACH	1.07	1.12	1.14	1.09
COLON & RECTUM	1.10*	1.00	0.92	1.01
LIVER (PRIMARY)	1.17	0.74	0.80	1.28
TRACHEA, BRONCHUS, LUNG	1.02	1.02	1.00	1.00
BREAST (FEMALE)	1.01	1.02	1.03	1.02
THYROID	0.35**	1.04	2.59	0.89
BONES & JOINTS	0.70	1.12	1.07	0.67
BLADDER	0.99	0.83	0.82	0.98
BRAIN & OTHER C.N.S.	1.07	1.09	1.03	1.01
BENIGN & UNSPEC NEOPLASMS	0.75	0.87	1.27	1.09

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.23

Age at death: 60 plus

Rancho Seco 1 (1974)
Amador, CA ; Sacramento, CA ; San Joaquin, CA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	661	1.02	837	0.92	503	1.00	763	1.03
ALL CANCER, EXCL LEUK	17338	1.01	22628	0.96	14062	1.02	20714	1.03
HODGKIN'S DISEASE	83	0.80	148	1.02	34	0.80	63	1.00
OTHER LYMPHOMA	500	1.20	629	1.06	438	1.06	676	1.09
MULTIPLE MYELOMA	253	1.18	334	1.13	240	0.98	358	1.02
DIGESTIVE ORGANS	6429	0.98	8208	0.91	4031	0.98	6032	1.00
STOMACH	1514	1.08	1794	0.96	581	1.06	834	1.07
COLON & RECTUM	2636	0.91	3503	0.86	1916	0.95	2840	0.95
LIVER (PRIMARY)	619	1.00	666	0.79	197	0.96	268	0.91
TRACHEA, BRONCHUS, LUNG	3237	1.14	4114	1.04	3925	1.11	5392	1.05
BREAST (FEMALE)	1163	0.98	1602	0.95	1014	1.02	1531	1.03
THYROID	71	1.09	76	0.83	26	0.74	45	0.86
BONES & JOINTS	66	0.72	84	0.67	32	1.02	22	0.48
BLADDER	620	0.98	843	0.96	412	1.01	572	0.95
BRAIN & OTHER C.N.S.	185	0.89	303	1.02	247	0.95	417	1.08
BENIGN & UNSPEC NEOPLASMS	48	0.85	86	1.04	88	1.01	183	1.44

Table 1-C.23

Age at death: 60 plus

Rancho Seco 1 (1974)
Amador, CA ; Sacramento, CA ; San Joaquin, CA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.11*	0.97	0.98	1.12*
ALL CANCER, EXCL LEUK	1.05***	0.99	1.01	1.07***
HODGKIN'S DISEASE	0.78	0.80	1.00	0.98
OTHER LYMPHOMA	1.13	0.97	0.88	1.03
MULTIPLE MYELOMA	1.04	0.96	0.83*	0.90
DIGESTIVE ORGANS	1.08***	0.98	1.00	1.10***
STOMACH	1.13***	0.99	0.98	1.11**
COLON & RECTUM	1.06	1.00	1.04	1.10***
LIVER (PRIMARY)	1.27***	1.05	0.96	1.15
TRACHEA, BRONCHUS, LUNG	1.10***	1.06**	0.97	1.01
BREAST (FEMALE)	1.03	0.99	1.04	1.08*
THYROID	1.31	0.86	0.68	1.04
BONES & JOINTS	1.07	2.13**	1.42	0.72
BLADDER	1.02	1.06	1.03	0.99
BRAIN & OTHER C.N.S.	0.87	0.88	1.07	1.06
BENIGN & UNSPEC NEOPLASMS	0.82	0.70**	1.19	1.38*

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.23

Age at death: all

Rancho Seco 1 (1974)

Amador, CA ; Sacramento, CA ; San Joaquin, C A

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1294	1.03	1724	0.98	807	1.05	1176	1.04
ALL CANCER, EXCL LEUK	26172	1.00	34186	0.96	19123	1.01	27671	1.01
HODGKIN'S DISEASE	282	0.88	397	0.90	92	0.87	145	0.93
OTHER LYMPHOMA	842	1.12	1100	1.05	641	1.08	929	1.05
MULTIPLE MYELOMA	334	1.09	459	1.10	300	0.97	425	0.97
DIGESTIVE ORGANS	8568	0.97	10806	0.90	5006	0.97	7402	0.99
STOMACH	1950	1.06	2310	0.95	739	1.07	1033	1.06
COLON & RECTUM	3496	0.91	4563	0.85	2311	0.93	3392	0.93
LIVER (PRIMARY)	837	0.99	915	0.81	261	0.95	372	0.96
TRACHEA, BRONCHUS, LUNG	4959	1.09	6388	1.02	5369	1.08	7364	1.03
BREAST (FEMALE)	2284	0.98	3147	0.96	1681	1.00	2514	1.02
THYROID	85	0.91	112	0.87	35	0.77	59	0.88
BONES & JOINTS	136	0.73	206	0.80	69	1.04	65	0.68
BLADDER	745	0.99	1008	0.97	454	1.00	642	0.95
BRAIN & OTHER C.N.S.	675	0.99	949	0.99	481	0.98	746	1.03
BENIGN & UNSPEC NEOPLASMS	89	0.83	154	1.01	139	1.04	266	1.37

Table 1-C.23

Age at death: all

Rancho Seco 1 (1974)
Amador, CA ; Sacramento, CA ; San Joaquin, C A

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.05	1.01	1.02	1.06
ALL CANCER, EXCL LEUK	1.04***	1.00	1.01	1.05***
HODGKIN'S DISEASE	0.98	0.94	0.99	1.03
OTHER LYMPHOMA	1.07	1.03	0.96	1.00
MULTIPLE MYELOMA	0.99	1.00	0.89	0.88
DIGESTIVE ORGANS	1.08***	0.98	1.00	1.10***
STOMACH	1.12***	1.01	1.01	1.12**
COLON & RECTUM	1.07**	1.00	1.02	1.09***
LIVER (PRIMARY)	1.22***	0.99	0.96	1.19**
TRACHEA, BRONCHUS, LUNG	1.07**	1.05**	0.99	1.01
BREAST (FEMALE)	1.02	0.98	1.02	1.06*
THYROID	1.05	0.88	0.85	1.01
BONES & JOINTS	0.91	1.53*	1.42*	0.85
BLADDER	1.02	1.05	1.01	0.98
BRAIN & OTHER C.N.S.	1.00	0.95	0.99	1.04
BENIGN & UNSPEC NEOPLASMS	0.82	0.76**	1.25	1.36**

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.24

Age at death: under 10

Three Mile Island 1,2 (1974)
Dauphin, PA ; Lancaster, PA ; York, PA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	155	1.08	635	1.00	28	1.14	63	0.73
ALL CANCER, EXCL LEUK	124	0.83	688	1.04	36	1.02	121	0.98
HODGKIN'S DISEASE	6	2.58	14	1.33	0	0.00	1	1.51
OTHER LYMPHOMA	15	0.75	78	0.87	3	0.86	9	0.73
MULTIPLE MYELOMA	0	0.00	0	0.00	1	33.57	0	0.00
DIGESTIVE ORGANS	8	1.05	47	1.39	2	1.06	9	1.36
STOMACH	0	0.00	3	2.06	0	0.00	1	5.63
COLON & RECTUM	3	3.69	9	2.44	0	0.00	2	3.67
LIVER (PRIMARY)	3	0.66	24	1.21	1	0.68	6	1.19
TRACHEA, BRONCHUS, LUNG	2	1.60	6	1.09	0	0.00	1	0.74
BREAST (FEMALE)	1	5.54	5	6.04	0	0.00	0	0.00
THYROID	0	0.00	2	3.09	0	0.00	0	0.00
BONES & JOINTS	6	1.11	43	1.79	0	0.00	3	0.75
BLADDER	0	0.00	7	1.84	0	0.00	3	9.40
BRAIN & OTHER C.N.S.	43	0.72	254	0.96	11	0.88	49	1.12
BENIGN & UNSPEC NEOPLASMS	6	1.58	12	0.80	2	0.63	15	1.34

Table 1-C.24

Age at death: under 10

Three Mile Island 1,2 (1974)
Dauphin, PA ; Lancaster, PA ; York, PA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.08	1.56	1.06	0.73*
ALL CANCER, EXCL LEUK	0.80*	1.04	1.23	0.94
HODGKIN'S DISEASE	1.94	0.00	0.00	1.14
OTHER LYMPHOMA	0.86	1.18	1.15	0.84
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.76	0.78	1.01	0.98
STOMACH	0.00	0.00	-	2.73
COLON & RECTUM	1.51	0.00	0.00	1.50
LIVER (PRIMARY)	0.55	0.57	1.03	0.98
TRACHEA, BRONCHUS, LUNG	1.47	0.00	0.00	0.68
BREAST (FEMALE)	0.92	-	0.00	0.00
THYROID	0.00	-	-	0.00
BONES & JOINTS	0.62	0.00	0.00	0.42
BLADDER	0.00	0.00	-	5.11
BRAIN & OTHER C.N.S.	0.75	0.79	1.22	1.17
BENIGN & UNSPEC NEOPLASMS	1.98	0.47	0.40	1.68

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.24

Age at death: 10 to 19

Three Mile Island 1,2 (1974)
Dauphin, PA ; Lancaster, PA ; York, PA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	76	1.07	300	0.95	22	0.85	97	0.98
ALL CANCER, EXCL LEUK	129	0.96	591	0.98	38	0.82	162	0.91
HODGKIN'S DISEASE	13	0.94	61	0.99	1	0.34	13	1.13
OTHER LYMPHOMA	20	1.01	92	1.04	5	0.76	21	0.83
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	9	1.41	24	0.82	2	0.89	7	0.79
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	0.42	11	0.99	1	1.36	1	0.34
LIVER (PRIMARY)	5	2.36	6	0.62	1	0.97	4	1.00
TRACHEA, BRONCHUS, LUNG	1	0.65	6	0.86	0	0.00	1	0.62
BREAST (FEMALE)	0	0.00	3	2.26	1	10.60	0	0.00
THYROID	0	0.00	3	1.87	0	0.00	1	2.93
BONES & JOINTS	21	0.83	113	1.00	7	0.85	30	0.95
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	33	0.98	122	0.81	9	0.75	41	0.90
BENIGN & UNSPEC NEOPLASMS	7	2.26	20	1.50	2	0.95	11	1.31

Table 1-C.24

Age at death: 10 to 19

Three Mile Island 1,2 (1974)
Dauphin, PA ; Lancaster, PA ; York, PA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.13	0.87	0.79	1.03
ALL CANCER, EXCL LEUK	0.98	0.90	0.85	0.93
HODGKIN'S DISEASE	0.95	0.30	0.36	1.14
OTHER LYMPHOMA	0.97	0.92	0.75	0.80
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.72	1.13	0.63	0.96
STOMACH	-	-	-	-
COLON & RECTUM	0.42	4.00	3.24	0.34
LIVER (PRIMARY)	3.81	0.97	0.41	1.61
TRACHEA, BRONCHUS, LUNG	0.76	0.00	0.00	0.72
BREAST (FEMALE)	0.00	-	-	0.00
THYROID	0.00	0.00	-	1.57
BONES & JOINTS	0.83	0.89	1.02	0.95
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.21	0.83	0.77	1.11
BENIGN & UNSPEC NEOPLASMS	1.51	0.73	0.42	0.87

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.24

Age at death: 20 to 39

Three Mile Island 1,2 (1974)
Dauphin, PA ; Lancaster, PA ; York, PA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	109	1.01	470	0.97	51	1.02	196	1.08
ALL CANCER, EXCL LEUK	947	1.00	4518	1.03	364	0.97	1443	1.06
HODGKIN'S DISEASE	106	1.21	418	1.07	29	1.19	97	1.11
OTHER LYMPHOMA	50	0.93	236	0.98	28	1.09	96	1.04
MULTIPLE MYELOMA	6	1.50	21	1.11	1	0.62	8	1.33
DIGESTIVE ORGANS	160	1.01	814	1.10	40	0.74	185	0.94
STOMACH	17	0.53	164	1.06	6	0.69	28	0.86
COLON & RECTUM	91	1.16	417	1.15	20	0.76	90	0.94
LIVER (PRIMARY)	21	1.35	70	0.94	5	0.87	25	1.16
TRACHEA, BRONCHUS, LUNG	66	0.90	379	1.13	28	0.80	132	1.05
BREAST (FEMALE)	125	0.94	701	1.13	58	0.99	237	1.10
THYROID	7	2.22	17	1.17	3	3.25	5	1.50
BONES & JOINTS	20	1.15	75	0.96	11	1.40	39	1.36
BLADDER	4	1.01	18	0.95	1	0.87	5	1.21
BRAIN & OTHER C.N.S.	64	0.75	363	0.95	36	0.98	146	1.11
BENIGN & UNSPEC NEOPLASMS	8	1.11	26	0.90	9	1.30	28	1.08

Table 1-C.24

Age at death: 20 to 39

Three Mile Island 1,2 (1974)
Dauphin, PA ; Lancaster, PA ; York, PA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.04	0.94	1.01	1.11
ALL CANCER, EXCL LEUK	0.97	0.92	0.97	1.03
HODGKIN'S DISEASE	1.13	1.07	0.98	1.04
OTHER LYMPHOMA	0.95	1.05	1.17	1.06
MULTIPLE MYELOMA	1.35	0.47	0.41	1.20
DIGESTIVE ORGANS	0.92	0.79	0.73	0.85
STOMACH	0.50**	0.80	1.30	0.81
COLON & RECTUM	1.01	0.81	0.66	0.82
LIVER (PRIMARY)	1.44	0.75	0.64	1.23
TRACHEA, BRONCHUS, LUNG	0.80	0.76	0.89	0.93
BREAST (FEMALE)	0.83	0.90	1.05	0.97
THYROID	1.90	2.17	1.46	1.28
BONES & JOINTS	1.20	1.03	1.22	1.42
BLADDER	1.06	0.72	0.86	1.27
BRAIN & OTHER C.N.S.	0.79	0.88	1.31	1.17
BENIGN & UNSPEC NEOPLASMS	1.23	1.20	1.17	1.20

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.24

Age at death: 40 to 59

Three Mile Island 1,2 (1974)
Dauphin, PA ; Lancaster, PA ; York, PA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	245	0.92	1253	0.98	115	1.06	481	1.06
ALL CANCER, EXCL LEUK	7614	1.01	39834	1.08	3389	0.96	15974	1.05
HODGKIN'S DISEASE	98	0.95	564	1.13	26	1.20	120	1.34
OTHER LYMPHOMA	263	1.13	1088	0.97	106	0.96	507	1.09
MULTIPLE MYELOMA	78	0.94	388	0.95	37	0.84	188	0.97
DIGESTIVE ORGANS	2021	1.00	11228	1.14	788	1.05	3616	1.11
STOMACH	282	0.74	2141	1.13	80	0.82	464	1.10
COLON & RECTUM	1020	1.16	5081	1.20	401	1.18	1747	1.20
LIVER (PRIMARY)	206	1.04	1185	1.21	38	0.92	170	0.93
TRACHEA, BRONCHUS, LUNG	1410	0.93	7857	1.07	889	0.82	4652	1.00
BREAST (FEMALE)	1098	1.01	5604	1.08	491	1.01	2232	1.07
THYROID	15	0.61	164	1.36	8	1.09	29	0.92
BONES & JOINTS	46	1.06	237	1.12	13	1.36	36	0.87
BLADDER	105	0.92	648	1.15	40	1.06	177	1.08
BRAIN & OTHER C.N.S.	266	0.93	1330	0.98	117	0.93	500	0.95
BENIGN & UNSPEC NEOPLASMS	33	1.19	181	1.38	23	0.96	110	1.05

Table 1-C.24

Age at death: 40 to 59

Three Mile Island 1,2 (1974)
Dauphin, PA ; Lancaster, PA ; York, PA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.94	1.00	1.15	1.08
ALL CANCER, EXCL LEUK	0.94***	0.91***	0.95*	0.97**
HODGKIN'S DISEASE	0.84	0.90	1.26	1.19
OTHER LYMPHOMA	1.16*	0.88	0.85	1.12*
MULTIPLE MYELOMA	0.99	0.87	0.89	1.02
DIGESTIVE ORGANS	0.88***	0.95	1.05	0.97
STOMACH	0.65***	0.75*	1.11	0.97
COLON & RECTUM	0.97	0.98	1.02	1.00
LIVER (PRIMARY)	0.86*	0.99	0.88	0.77**
TRACHEA, BRONCHUS, LUNG	0.87***	0.82***	0.88**	0.93***
BREAST (FEMALE)	0.94	0.94	1.00	0.99
THYROID	0.45**	1.18	1.79	0.68
BONES & JOINTS	0.95	1.56	1.28	0.78
BLADDER	0.80*	0.98	1.15	0.94
BRAIN & OTHER C.N.S.	0.95	0.98	1.00	0.97
BENIGN & UNSPEC NEOPLASMS	0.86	0.91	0.81	0.76*

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-C.24

Age at death: 60 plus

Three Mile Island 1,2 (1974)
Dauphin, PA ; Lancaster, PA ; York, PA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	731	0.93	3186	0.95	466	1.00	1921	1.01
ALL CANCER, EXCL LEUK	20249	1.00	98715	1.12	12832	1.04	56335	1.10
HODGKIN'S DISEASE	108	0.87	585	1.07	45	1.14	159	0.97
OTHER LYMPHOMA	557	1.12	2073	0.96	414	1.07	1636	1.03
MULTIPLE MYELOMA	227	0.94	1063	0.99	270	1.26	948	1.05
DIGESTIVE ORGANS	7658	0.97	40522	1.19	3934	1.06	17370	1.13
STOMACH	1277	0.76	9017	1.23	412	0.87	2441	1.23
COLON & RECTUM	3992	1.11	18587	1.22	2191	1.17	8755	1.14
LIVER (PRIMARY)	720	0.93	4079	1.22	144	0.81	790	1.06
TRACHEA, BRONCHUS, LUNG	2729	0.88	15057	1.08	2732	0.89	13881	1.07
BREAST (FEMALE)	1731	1.09	7043	1.07	1128	1.17	4392	1.09
THYROID	72	0.86	372	1.05	46	1.38	157	1.15
BONES & JOINTS	123	1.10	570	1.17	35	1.20	124	1.03
BLADDER	864	1.15	3793	1.17	372	0.99	1823	1.20
BRAIN & OTHER C.N.S.	208	0.87	921	0.87	213	0.89	1023	1.02
BENIGN & UNSPEC NEOPLASMS	65	1.08	288	1.12	87	1.08	405	1.21

Table 1-C.24

Age at death: 60 plus

Three Mile Island 1,2 (1974)
Dauphin, PA ; Lancaster, PA ; York, PA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.98	0.99	1.08	1.06*
ALL CANCER, EXCL LEUK	0.89***	0.95***	1.04***	0.98***
HODGKIN'S DISEASE	0.81*	1.18	1.31	0.91
OTHER LYMPHOMA	1.17**	1.04	0.96	1.07*
MULTIPLE MYELOMA	0.95	1.20*	1.34**	1.06
DIGESTIVE ORGANS	0.82***	0.94***	1.09***	0.95***
STOMACH	0.62***	0.71***	1.14*	1.00
COLON & RECTUM	0.91***	1.03	1.05	0.93***
LIVER (PRIMARY)	0.76***	0.76**	0.87	0.87***
TRACHEA, BRONCHUS, LUNG	0.81***	0.83***	1.01	0.99
BREAST (FEMALE)	1.02	1.07*	1.07	1.02
THYROID	0.82	1.20	1.60*	1.10
BONES & JOINTS	0.94	1.17	1.09	0.88
BLADDER	0.98	0.83***	0.86*	1.03
BRAIN & OTHER C.N.S.	1.00	0.87	1.02	1.17***
BENIGN & UNSPEC NEOPLASMS	0.96	0.89	1.00	1.08

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-C.24

Age at death: all

Three Mile Island 1,2 (1974)
Dauphin, PA ; Lancaster, PA ; York, PA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1316	0.96	5844	0.96	682	1.01	2758	1.01
ALL CANCER, EXCL LEUK	29063	1.00	144346	1.10	16659	1.02	74035	1.08
HODGKIN'S DISEASE	331	1.00	1642	1.09	101	1.14	390	1.10
OTHER LYMPHOMA	905	1.10	3567	0.97	556	1.04	2269	1.04
MULTIPLE MYELOMA	311	0.94	1472	0.98	309	1.19	1144	1.04
DIGESTIVE ORGANS	9856	0.97	52635	1.17	4766	1.05	21187	1.12
STOMACH	1576	0.75	11325	1.20	498	0.86	2934	1.20
COLON & RECTUM	5107	1.12	24105	1.21	2613	1.17	10595	1.15
LIVER (PRIMARY)	955	0.96	5364	1.21	189	0.83	995	1.04
TRACHEA, BRONCHUS, LUNG	4208	0.90	23305	1.08	3649	0.87	18667	1.05
BREAST (FEMALE)	2955	1.06	13356	1.07	1678	1.11	6861	1.09
THYROID	94	0.84	558	1.13	57	1.36	192	1.12
BONES & JOINTS	216	1.06	1038	1.14	66	1.18	232	1.03
BLADDER	973	1.11	4466	1.17	413	0.99	2008	1.19
BRAIN & OTHER C.N.S.	614	0.87	2990	0.93	386	0.91	1759	1.00
BENIGN & UNSPEC NEOPLASMS	119	1.17	527	1.18	123	1.05	569	1.17

Table 1-C.24

Age at death: all

Three Mile Island 1,2 (1974)
Dauphin, PA ; Lancaster, PA ; York, PA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	1.00	1.05	1.05*
ALL CANCER, EXCL LEUK	0.91***	0.94***	1.02*	0.98***
HODGKIN'S DISEASE	0.92	1.04	1.14	1.01
OTHER LYMPHOMA	1.13***	1.00	0.95	1.07**
MULTIPLE MYELOMA	0.96	1.14*	1.27**	1.06
DIGESTIVE ORGANS	0.83***	0.94***	1.08***	0.96***
STOMACH	0.63***	0.72***	1.15*	1.00
COLON & RECTUM	0.93***	1.02	1.04	0.95***
LIVER (PRIMARY)	0.79***	0.80**	0.86	0.86***
TRACHEA, BRONCHUS, LUNG	0.83***	0.83***	0.97	0.97*
BREAST (FEMALE)	0.99	1.02	1.05	1.02
THYROID	0.74**	1.21	1.62**	0.99
BONES & JOINTS	0.93	1.15	1.11	0.90
BLADDER	0.95	0.83***	0.89	1.02
BRAIN & OTHER C.N.S.	0.94	0.91	1.05	1.08**
BENIGN & UNSPEC NEOPLASMS	0.99	0.90	0.90	0.99

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.1

Age at death: under 10

Brunswick 1,2 (1975)
Brunswick, NC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3	0.70	19	0.89	2	2.12	5	1.34
ALL CANCER, EXCL LEUK	3	0.58	22	0.89	0	0.00	7	1.22
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	4	1.25	0	0.00	1	1.84
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	2	1.55	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	5.66	0	0.00	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	1	0.50	12	1.24	0	0.00	4	2.00
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	1.45	0	0.00	0	0.00

Table 1-D.1

Age at death: under 10

Brunswick 1,2 (1975)
Brunswick, NC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.79	1.58	3.03	1.51
ALL CANCER, EXCL LEUK	0.65	0.00	0.00	1.37
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	0.00	0.00	-	1.47
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	-	0.00	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.40	0.00	0.00	1.61
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.1

Age at death: 10 to 19

Brunswick 1,2 (1975)
Brunswick, NC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1	0.40	4	0.34	0	0.00	2	0.52
ALL CANCER, EXCL LEUK	5	0.98	17	0.72	2	1.13	9	1.24
HODGKIN'S DISEASE	0	0.00	4	1.73	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	0	0.00	0	0.00	1	1.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	1.08	4	0.93	1	3.28	1	0.79
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	2	1.63	7	1.22	0	0.00	3	1.64
BENIGN & UNSPEC NEOPLASMS	0	0.00	2	3.40	0	0.00	0	0.00

Table 1-D.1

Age at death: 10 to 19

Brunswick 1,2 (1975)
Brunswick, NC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.18	0.00	0.00	1.53
ALL CANCER, EXCL LEUK	1.36	0.91	1.15	1.72
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	-	0.00	-	-
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.16	4.15	3.04	0.85
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.34	0.00	0.00	1.34
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.1

Age at death: 20 to 39

Brunswick 1,2 (1975)
Brunswick, NC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3	0.94	16	1.02	0	0.00	2	0.26
ALL CANCER, EXCL LEUK	20	0.67	125	0.88	24	1.68	78	1.31
HODGKIN'S DISEASE	1	0.43	6	0.50	1	1.21	3	0.84
OTHER LYMPHOMA	2	1.27	6	0.77	1	1.06	6	1.50
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	2	0.38	19	0.76	7	3.10	9	0.97
STOMACH	1	0.85	4	0.74	0	0.00	1	0.62
COLON & RECTUM	1	0.42	8	0.69	5	4.79	5	1.16
LIVER (PRIMARY)	0	0.00	3	1.08	0	0.00	2	1.77
TRACHEA, BRONCHUS, LUNG	2	0.82	7	0.62	1	0.72	8	1.43
BREAST (FEMALE)	2	0.49	9	0.47	4	1.71	13	1.39
THYROID	0	0.00	1	2.15	0	0.00	0	0.00
BONES & JOINTS	0	0.00	2	0.74	0	0.00	3	2.46
BLADDER	0	0.00	1	1.48	0	0.00	1	5.47
BRAIN & OTHER C.N.S.	2	0.87	8	0.69	0	0.00	7	1.30
BENIGN & UNSPEC NEOPLASMS	1	3.01	3	2.23	0	0.00	0	0.00

Table 1-D.1

Age at death: 20 to 39

Brunswick 1,2 (1975)
Brunswick, NC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.92	0.00	0.00	0.25
ALL CANCER, EXCL LEUK	0.76	1.28	2.51**	1.49**
HODGKIN'S DISEASE	0.86	1.44	2.81	1.68
OTHER LYMPHOMA	1.65	0.71	0.83	1.95
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.50	3.20*	8.16**	1.28
STOMACH	1.15	0.00	0.00	0.84
COLON & RECTUM	0.61	4.13	11.40*	1.68
LIVER (PRIMARY)	0.00	0.00	-	1.64
TRACHEA, BRONCHUS, LUNG	1.32	0.50	0.88	2.31
BREAST (FEMALE)	1.04	1.23	3.49	2.96*
THYROID	0.00	-	-	0.00
BONES & JOINTS	0.00	0.00	-	3.32
BLADDER	0.00	0.00	-	3.70
BRAIN & OTHER C.N.S.	1.26	0.00	0.00	1.88
BENIGN & UNSPEC NEOPLASMS	1.35	-	0.00	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.1

Age at death: 40 to 59

Brunswick 1,2 (1975)
Brunswick, NC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	6	0.82	31	1.01	6	1.51	15	0.97
ALL CANCER, EXCL LEUK	177	0.77	867	0.92	135	0.99	524	1.00
HODGKIN'S DISEASE	2	0.74	10	0.87	0	0.00	2	0.68
OTHER LYMPHOMA	4	0.64	22	0.84	3	0.77	14	0.93
MULTIPLE MYELOMA	2	0.69	8	0.70	2	1.06	10	1.40
DIGESTIVE ORGANS	36	0.57	199	0.78	20	0.66	116	1.01
STOMACH	10	0.76	39	0.77	2	0.49	17	1.10
COLON & RECTUM	14	0.57	57	0.56	10	0.79	46	0.95
LIVER (PRIMARY)	3	0.48	26	1.04	2	1.08	6	0.86
TRACHEA, BRONCHUS, LUNG	35	0.72	191	0.99	53	1.25	179	1.12
BREAST (FEMALE)	24	0.82	109	0.86	17	0.97	69	0.98
THYROID	1	1.41	4	1.38	1	3.69	1	0.96
BONES & JOINTS	2	1.59	7	1.36	0	0.00	1	0.73
BLADDER	2	0.55	12	0.84	0	0.00	2	0.38
BRAIN & OTHER C.N.S.	6	0.83	47	1.51	6	1.39	14	0.83
BENIGN & UNSPEC NEOPLASMS	0	0.00	7	1.58	0	0.00	4	1.19

Table 1-D.1

Age at death: 40 to 59

Brunswick 1,2 (1975)
Brunswick, NC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.81	1.56	1.84	0.96
ALL CANCER, EXCL LEUK	0.84*	0.99	1.29*	1.09
HODGKIN'S DISEASE	0.85	0.00	0.00	0.78
OTHER LYMPHOMA	0.76	0.83	1.20	1.11
MULTIPLE MYELOMA	0.99	0.76	1.54	2.00
DIGESTIVE ORGANS	0.73	0.65	1.16	1.29*
STOMACH	0.99	0.45	0.64	1.43
COLON & RECTUM	1.02	0.83	1.39	1.70*
LIVER (PRIMARY)	0.46	1.26	2.25	0.83
TRACHEA, BRONCHUS, LUNG	0.73	1.12	1.74*	1.13
BREAST (FEMALE)	0.95	0.99	1.18	1.14
THYROID	1.02	3.84	2.62	0.70
BONES & JOINTS	1.17	0.00	0.00	0.54
BLADDER	0.65	0.00	0.00	0.45
BRAIN & OTHER C.N.S.	0.55	1.67	1.67	0.55
BENIGN & UNSPEC NEOPLASMS	0.00	0.00	-	0.75

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.1

Age at death: 60 plus

Brunswick 1,2 (1975)
Brunswick, NC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	17	1.00	64	0.98	2	0.14	49	0.95
ALL CANCER, EXCL LEUK	327	0.67	1368	0.75	380	0.89	1300	0.87
HODGKIN'S DISEASE	3	1.12	14	1.35	1	0.80	1	0.22
OTHER LYMPHOMA	8	0.72	40	0.92	13	1.08	33	0.76
MULTIPLE MYELOMA	1	0.15	15	0.60	10	1.24	19	0.68
DIGESTIVE ORGANS	101	0.56	465	0.68	78	0.62	340	0.77
STOMACH	20	0.49	105	0.72	12	0.69	47	0.80
COLON & RECTUM	32	0.42	164	0.55	30	0.51	154	0.73
LIVER (PRIMARY)	16	0.97	44	0.70	4	0.60	22	0.97
TRACHEA, BRONCHUS, LUNG	55	0.64	217	0.70	103	0.90	341	0.87
BREAST (FEMALE)	13	0.41	72	0.54	22	0.74	80	0.71
THYROID	0	0.00	8	1.16	0	0.00	5	1.34
BONES & JOINTS	1	0.40	13	1.40	0	0.00	4	1.26
BLADDER	11	0.65	41	0.66	17	1.44	32	0.79
BRAIN & OTHER C.N.S.	2	0.34	16	0.69	7	0.87	32	1.11
BENIGN & UNSPEC NEOPLASMS	2	1.00	5	0.68	5	2.00	7	0.79

Table 1-D.1

Age at death: 60 plus

Brunswick 1,2 (1975)
Brunswick, NC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.02	0.15***	0.14**	0.97
ALL CANCER, EXCL LEUK	0.89	1.02	1.33***	1.16***
HODGKIN'S DISEASE	0.83	3.64	0.71	0.16
OTHER LYMPHOMA	0.78	1.42	1.50	0.83
MULTIPLE MYELOMA	0.25	1.82	8.27*	1.13
DIGESTIVE ORGANS	0.82	0.81	1.11	1.13
STOMACH	0.68	0.86	1.41	1.11
COLON & RECTUM	0.76	0.70	1.21	1.33*
LIVER (PRIMARY)	1.39	0.62	0.62	1.39
TRACHEA, BRONCHUS, LUNG	0.91	1.03	1.41*	1.24*
BREAST (FEMALE)	0.76	1.04	1.80	1.31
THYROID	0.00	0.00	-	1.16
BONES & JOINTS	0.29	0.00	0.00	0.90
BLADDER	0.98	1.82	2.22	1.20
BRAIN & OTHER C.N.S.	0.49	0.78	2.56	1.61
BENIGN & UNSPEC NEOPLASMS	1.47	2.53	2.00	1.16

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.1

Age at death: all

Brunswick 1,2 (1975)
Brunswick, NC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	30	0.87	134	0.92	10	0.45	73	0.89
ALL CANCER, EXCL LEUK	532	0.70	2399	0.81	541	0.93	1918	0.92
HODGKIN'S DISEASE	6	0.73	34	0.93	2	0.68	6	0.52
OTHER LYMPHOMA	14	0.69	72	0.86	17	0.98	55	0.86
MULTIPLE MYELOMA	3	0.30	23	0.62	12	1.20	29	0.82
DIGESTIVE ORGANS	139	0.55	685	0.71	105	0.66	465	0.82
STOMACH	31	0.56	148	0.73	14	0.64	65	0.85
COLON & RECTUM	47	0.45	229	0.56	45	0.62	205	0.78
LIVER (PRIMARY)	19	0.80	73	0.80	6	0.68	30	0.96
TRACHEA, BRONCHUS, LUNG	92	0.67	415	0.80	157	0.99	528	0.95
BREAST (FEMALE)	39	0.60	190	0.68	43	0.87	162	0.84
THYROID	1	0.39	13	1.26	1	0.75	6	1.21
BONES & JOINTS	5	0.93	26	1.17	1	0.53	9	1.25
BLADDER	13	0.62	54	0.70	17	1.28	35	0.76
BRAIN & OTHER C.N.S.	13	0.69	90	1.11	13	0.89	60	1.10
BENIGN & UNSPEC NEOPLASMS	3	0.79	18	1.25	5	1.31	11	0.78

Table 1-D.1

Age at death: all

Brunswick 1,2 (1975)
Brunswick, NC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.95	0.51*	0.52	0.97
ALL CANCER, EXCL LEUK	0.86**	1.01	1.33***	1.14***
HODGKIN'S DISEASE	0.78	1.31	0.93	0.56
OTHER LYMPHOMA	0.80	1.14	1.42	1.00
MULTIPLE MYELOMA	0.48	1.46	4.00*	1.32
DIGESTIVE ORGANS	0.77**	0.80	1.20	1.15*
STOMACH	0.77	0.75	1.14	1.16
COLON & RECTUM	0.80	0.79	1.38	1.39***
LIVER (PRIMARY)	1.00	0.71	0.85	1.20
TRACHEA, BRONCHUS, LUNG	0.84	1.04	1.48**	1.19*
BREAST (FEMALE)	0.88	1.04	1.45	1.24
THYROID	0.31	0.62	1.92	0.96
BONES & JOINTS	0.79	0.42	0.57	1.07
BLADDER	0.89	1.68	2.06	1.09
BRAIN & OTHER C.N.S.	0.62	0.81	1.29	0.99
BENIGN & UNSPEC NEOPLASMS	0.63	1.68	1.66	0.62

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-D.2

Age at death: under 10

Cook 1,2 (1975)
Berrien, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	35	1.13	68	0.98	2	0.45	8	0.89
ALL CANCER, EXCL LEUK	43	1.30	91	1.24	13	1.98	16	1.21
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	6	1.36	11	1.12	1	1.55	1	0.78
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	2	1.19	3	0.80	0	0.00	0	0.00
STOMACH	0	0.00	1	6.19	0	0.00	0	0.00
COLON & RECTUM	1	5.45	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	1	1.00	2	0.90	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	1	3.60	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	1	10.67	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	4	3.36	3	1.13	0	0.00	1	2.40
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	19	1.44	40	1.37	4	1.74	4	0.86
BENIGN & UNSPEC NEOPLASMS	0	0.00	4	2.08	1	1.70	0	0.00

Table 1-D.2

Age at death: under 10

Cook 1,2 (1975)
Berrien, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.15	0.51	0.40	0.91
ALL CANCER, EXCL LEUK	1.05	1.64	1.52	0.98
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	1.21	1.99	1.14	0.70
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.49	-	0.00	0.00
STOMACH	0.00	-	-	0.00
COLON & RECTUM	-	-	0.00	-
LIVER (PRIMARY)	1.11	-	0.00	0.00
TRACHEA, BRONCHUS, LUNG	-	-	0.00	-
BREAST (FEMALE)	0.00	-	-	0.00
THYROID	-	-	-	-
BONES & JOINTS	2.97	0.00	0.00	2.12
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.05	2.02	1.21	0.63
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-D.2

Age at death: 10 to 19

Cook 1,2 (1975)
Berrien, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	18	1.17	35	1.03	3	0.65	12	1.27
ALL CANCER, EXCL LEUK	36	1.22	71	1.09	13	1.53	12	0.70
HODGKIN'S DISEASE	8	2.73	2	0.31	0	0.00	0	0.00
OTHER LYMPHOMA	4	0.93	11	1.16	1	0.84	1	0.41
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	2	1.38	3	0.94	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	1.80	1	0.82	0	0.00	0	0.00
LIVER (PRIMARY)	1	2.06	1	0.94	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	1	1.35	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	6	1.10	17	1.41	3	2.01	4	1.32
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	8	1.09	23	1.42	4	1.85	2	0.46
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	0.62	0	0.00	1	1.34

Table 1-D.2

Age at death: 10 to 19

Cook 1,2 (1975)
Berrien, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.14	0.51	0.56	1.23
ALL CANCER, EXCL LEUK	1.12	2.19	1.25	0.64
HODGKIN'S DISEASE	8.81**	-	0.00	0.00
OTHER LYMPHOMA	0.80	2.05	0.90	0.35
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.47	-	0.00	0.00
STOMACH	-	-	-	-
COLON & RECTUM	2.20	-	0.00	0.00
LIVER (PRIMARY)	2.19	-	0.00	0.00
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.78	1.52	1.83	0.94
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.77	4.02	1.70	0.32
BENIGN & UNSPEC NEOPLASMS	0.00	0.00	-	2.16

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.2

Age at death: 20 to 39

Cook 1,2 (1975)
Berrien, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	26	1.19	42	0.90	11	1.36	14	0.85
ALL CANCER, EXCL LEUK	204	1.04	429	1.03	72	1.15	157	1.25
HODGKIN'S DISEASE	21	1.21	38	1.02	3	0.79	11	1.40
OTHER LYMPHOMA	15	1.38	27	1.16	3	0.72	9	1.06
MULTIPLE MYELOMA	0	0.00	0	0.00	1	3.44	2	3.52
DIGESTIVE ORGANS	37	1.12	68	0.97	6	0.65	23	1.25
STOMACH	7	1.02	19	1.30	2	1.27	2	0.65
COLON & RECTUM	19	1.19	31	0.91	1	0.23	14	1.58
LIVER (PRIMARY)	4	1.18	9	1.26	0	0.00	2	0.98
TRACHEA, BRONCHUS, LUNG	19	1.22	34	1.04	8	1.37	15	1.28
BREAST (FEMALE)	23	0.84	56	0.98	9	0.89	22	1.10
THYROID	0	0.00	2	1.47	0	0.00	1	3.26
BONES & JOINTS	1	0.28	8	1.05	0	0.00	2	0.78
BLADDER	0	0.00	3	1.68	0	0.00	1	2.59
BRAIN & OTHER C.N.S.	16	0.94	38	1.05	11	1.90	16	1.34
BENIGN & UNSPEC NEOPLASMS	3	1.77	4	1.21	2	1.74	3	1.33

Table 1-D.2

Age at death: 20 to 39

Cook 1,2 (1975)
Berrien, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.32	1.60	1.14	0.94
ALL CANCER, EXCL LEUK	1.01	0.92	1.11	1.21
HODGKIN'S DISEASE	1.19	0.56	0.65	1.37
OTHER LYMPHOMA	1.19	0.68	0.52	0.91
MULTIPLE MYELOMA	-	0.98	-	-
DIGESTIVE ORGANS	1.15	0.52	0.58	1.29
STOMACH	0.78	1.95	1.25	0.50
COLON & RECTUM	1.31	0.15*	0.19	1.74
LIVER (PRIMARY)	0.94	0.00	0.00	0.78
TRACHEA, BRONCHUS, LUNG	1.17	1.07	1.12	1.23
BREAST (FEMALE)	0.86	0.81	1.06	1.12
THYROID	0.00	0.00	-	2.22
BONES & JOINTS	0.27	0.00	0.00	0.74
BLADDER	0.00	0.00	-	1.54
BRAIN & OTHER C.N.S.	0.90	1.42	2.02	1.28
BENIGN & UNSPEC NEOPLASMS	1.46	1.31	0.98	1.10

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.2

Age at death: 40 to 59

Cook 1,2 (1975)
Berrien, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	55	1.07	103	0.93	15	0.84	36	0.97
ALL CANCER, EXCL LEUK	1531	1.03	2998	0.93	571	0.95	1257	1.02
HODGKIN'S DISEASE	28	1.42	54	1.26	5	1.43	9	1.24
OTHER LYMPHOMA	55	1.22	92	0.95	18	1.00	37	0.99
MULTIPLE MYELOMA	21	1.25	30	0.83	8	1.02	19	1.19
DIGESTIVE ORGANS	375	0.94	758	0.88	101	0.78	265	0.99
STOMACH	72	0.95	124	0.75	11	0.64	23	0.65
COLON & RECTUM	171	1.01	352	0.97	43	0.76	122	1.04
LIVER (PRIMARY)	37	0.96	84	1.00	6	0.80	20	1.30
TRACHEA, BRONCHUS, LUNG	322	1.04	626	0.93	201	1.09	383	1.00
BREAST (FEMALE)	220	1.08	389	0.89	75	0.93	169	1.03
THYROID	2	0.42	9	0.88	2	1.64	0	0.00
BONES & JOINTS	6	0.72	18	0.99	1	0.63	2	0.61
BLADDER	28	1.24	41	0.83	10	1.58	18	1.37
BRAIN & OTHER C.N.S.	61	1.11	127	1.08	19	0.94	44	1.05
BENIGN & UNSPEC NEOPLASMS	7	1.14	8	0.62	3	0.76	8	1.00

Table 1-D.2

Age at death: 40 to 59

Cook 1,2 (1975)
Berrien, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.15	0.87	0.79	1.04
ALL CANCER, EXCL LEUK	1.11**	0.93	0.92	1.10*
HODGKIN'S DISEASE	1.13	1.15	1.01	0.98
OTHER LYMPHOMA	1.28	1.01	0.82	1.04
MULTIPLE MYELOMA	1.51	0.86	0.82	1.43
DIGESTIVE ORGANS	1.07	0.79*	0.83	1.13
STOMACH	1.27	0.98	0.67	0.87
COLON & RECTUM	1.04	0.73	0.75	1.07
LIVER (PRIMARY)	0.96	0.62	0.83	1.30
TRACHEA, BRONCHUS, LUNG	1.12	1.09	1.05	1.08
BREAST (FEMALE)	1.21*	0.90	0.86	1.16
THYROID	0.48	-	3.90	0.00
BONES & JOINTS	0.73	1.03	0.88	0.62
BLADDER	1.49	1.15	1.27	1.65
BRAIN & OTHER C.N.S.	1.03	0.90	0.85	0.97
BENIGN & UNSPEC NEOPLASMS	1.84	0.76	0.67	1.61

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.2

Age at death: 60 plus

Cook 1,2 (1975)
Berrien, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	177	1.22	320	1.08	66	0.90	146	0.98
ALL CANCER, EXCL LEUK	3937	1.03	8040	1.03	1944	0.97	4169	1.03
HODGKIN'S DISEASE	17	0.75	64	1.37	5	0.82	18	1.44
OTHER LYMPHOMA	129	1.39	179	0.94	65	1.07	136	1.10
MULTIPLE MYELOMA	53	1.12	124	1.28	27	0.76	84	1.16
DIGESTIVE ORGANS	1553	1.06	2988	0.99	567	0.94	1170	0.96
STOMACH	371	1.19	654	1.02	81	1.03	125	0.79
COLON & RECTUM	674	1.03	1331	0.99	293	0.99	600	1.00
LIVER (PRIMARY)	147	1.05	325	1.13	22	0.75	53	0.89
TRACHEA, BRONCHUS, LUNG	640	1.05	1261	1.00	516	1.04	1074	1.05
BREAST (FEMALE)	296	1.06	610	1.06	121	0.81	336	1.10
THYROID	15	1.00	30	0.97	4	0.76	15	1.41
BONES & JOINTS	15	0.73	58	1.38	3	0.67	10	1.10
BLADDER	153	1.09	318	1.11	64	1.07	127	1.05
BRAIN & OTHER C.N.S.	30	0.66	118	1.25	37	0.99	88	1.14
BENIGN & UNSPEC NEOPLASMS	12	0.95	25	0.97	9	0.72	25	0.99

Table 1-D.2

Age at death: 60 plus

Cook 1,2 (1975)
Berrien, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.13	0.92	0.74*	0.91
ALL CANCER, EXCL LEUK	1.00	0.94	0.94*	1.00
HODGKIN'S DISEASE	0.55*	0.57	1.09	1.05
OTHER LYMPHOMA	1.48***	0.97	0.77	1.17
MULTIPLE MYELOMA	0.88	0.66	0.68	0.91
DIGESTIVE ORGANS	1.07*	0.98	0.89*	0.97
STOMACH	1.17*	1.30	0.87	0.77**
COLON & RECTUM	1.04	0.99	0.96	1.01
LIVER (PRIMARY)	0.93	0.84	0.71	0.79
TRACHEA, BRONCHUS, LUNG	1.05	0.99	0.99	1.05
BREAST (FEMALE)	1.00	0.74**	0.76*	1.04
THYROID	1.03	0.54	0.76	1.45
BONES & JOINTS	0.53*	0.61	0.92	0.80
BLADDER	0.98	1.02	0.98	0.95
BRAIN & OTHER C.N.S.	0.53**	0.87	1.50	0.91
BENIGN & UNSPEC NEOPLASMS	0.98	0.73	0.76	1.02

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.2

Age at death: all

Cook 1,2 (1975)
Berrien, MI

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	311	1.17	568	1.02	97	0.89	216	0.98
ALL CANCER, EXCL LEUK	5751	1.04	11629	1.00	2613	0.98	5611	1.03
HODGKIN'S DISEASE	74	1.17	158	1.18	13	0.93	38	1.32
OTHER LYMPHOMA	209	1.33	320	0.97	88	1.04	184	1.06
MULTIPLE MYELOMA	74	1.14	154	1.14	36	0.82	105	1.18
DIGESTIVE ORGANS	1969	1.04	3820	0.97	674	0.91	1458	0.97
STOMACH	450	1.14	798	0.97	94	0.97	150	0.76
COLON & RECTUM	866	1.03	1715	0.98	337	0.94	736	1.01
LIVER (PRIMARY)	190	1.04	421	1.10	28	0.73	75	0.96
TRACHEA, BRONCHUS, LUNG	982	1.05	1922	0.98	725	1.05	1472	1.04
BREAST (FEMALE)	539	1.06	1056	0.99	205	0.85	527	1.08
THYROID	17	0.83	41	0.96	6	0.91	16	1.19
BONES & JOINTS	32	0.82	104	1.26	7	0.78	19	1.03
BLADDER	181	1.10	362	1.07	74	1.12	146	1.09
BRAIN & OTHER C.N.S.	134	0.97	346	1.17	75	1.10	154	1.10
BENIGN & UNSPEC NEOPLASMS	22	0.99	42	0.92	15	0.81	37	0.99

Table 1-D.2

Age at death: all

Cook 1,2 (1975)
Berrien, MI

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.15*	0.91	0.76*	0.96
ALL CANCER, EXCL LEUK	1.04	0.95*	0.94*	1.03
HODGKIN'S DISEASE	0.99	0.70	0.79	1.12
OTHER LYMPHOMA	1.37***	0.98	0.78	1.09
MULTIPLE MYELOMA	1.00	0.69	0.72	1.04
DIGESTIVE ORGANS	1.07*	0.94	0.88**	1.00
STOMACH	1.18**	1.28	0.85	0.78**
COLON & RECTUM	1.05	0.93	0.91	1.03
LIVER (PRIMARY)	0.95	0.76	0.70	0.87
TRACHEA, BRONCHUS, LUNG	1.07	1.01	1.00	1.06
BREAST (FEMALE)	1.07	0.79**	0.80**	1.09
THYROID	0.86	0.76	1.10	1.24
BONES & JOINTS	0.65*	0.76	0.95	0.82
BLADDER	1.03	1.03	1.02	1.02
BRAIN & OTHER C.N.S.	0.83	1.00	1.13	0.94
BENIGN & UNSPEC NEOPLASMS	1.08	0.82	0.82	1.08

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-D.3

Age at death: under 10

Trojan (1975)
Columbia, OR ; Cowlitz, WA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	21	1.11	50	1.00	3	0.95	15	1.61
ALL CANCER, EXCL LEUK	23	1.18	51	0.99	6	1.31	9	0.66
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	9	1.29	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	3	3.05	2	0.77	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	9.88	1	3.68	0	0.00	0	0.00
LIVER (PRIMARY)	2	3.37	1	0.64	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	1	0.52	2	13.55	1	2.32
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	14	1.80	22	1.07	3	1.84	4	0.83
BENIGN & UNSPEC NEOPLASMS	3	5.28	1	0.66	3	7.90	2	1.79

Table 1-D.3

Age at death: under 10

Trojan (1975)
Columbia, OR ; Cowlitz, WA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.11	0.59	0.86	1.61
ALL CANCER, EXCL LEUK	1.19	1.98	1.11	0.67
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	0.00	-	-	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	3.96	-	0.00	0.00
STOMACH	-	-	-	-
COLON & RECTUM	2.68	-	0.00	0.00
LIVER (PRIMARY)	5.27	-	0.00	0.00
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	5.84	-	4.46
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.68	2.22	1.02	0.78
BENIGN & UNSPEC NEOPLASMS	8.00	4.41	1.50	2.71

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.3

Age at death: 10 to 19

Trojan (1975)
Columbia, OR ; Cowlitz, WA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8	0.85	36	1.41	2	0.67	5	0.55
ALL CANCER, EXCL LEUK	23	1.31	44	0.92	3	0.58	11	0.69
HODGKIN'S DISEASE	2	1.14	1	0.21	0	0.00	1	0.98
OTHER LYMPHOMA	3	1.15	4	0.56	0	0.00	1	0.43
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	1.26	1	0.45	1	4.15	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	1	13.39	0	0.00
LIVER (PRIMARY)	0	0.00	1	1.33	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	3	0.91	7	0.78	0	0.00	4	1.39
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	6	1.34	14	1.16	1	0.73	2	0.48
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-D.3

Age at death: 10 to 19

Trojan (1975)
Columbia, OR ; Cowlitz, WA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.60	1.22	0.79	0.39
ALL CANCER, EXCL LEUK	1.42	0.84	0.44	0.75
HODGKIN'S DISEASE	5.43	0.00	0.00	4.67
OTHER LYMPHOMA	2.05	0.00	0.00	0.77
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	2.80	-	3.29	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.00	-	-	0.00
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.17	0.00	0.00	1.78
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.16	1.52	0.54	0.41
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.3

Age at death: 20 to 39

Trojan (1975)
Columbia, OR ; Cowlitz, WA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	10	0.80	24	0.70	6	1.04	17	0.93
ALL CANCER, EXCL LEUK	100	0.92	271	0.91	49	1.11	129	0.93
HODGKIN'S DISEASE	12	1.18	32	1.16	4	1.42	8	0.90
OTHER LYMPHOMA	8	1.28	15	0.88	7	2.31	9	0.94
MULTIPLE MYELOMA	1	2.23	2	1.62	0	0.00	0	0.00
DIGESTIVE ORGANS	10	0.56	47	0.95	6	0.96	11	0.55
STOMACH	2	0.56	6	0.61	0	0.00	1	0.31
COLON & RECTUM	4	0.45	24	0.98	4	1.30	4	0.41
LIVER (PRIMARY)	2	1.17	3	0.63	0	0.00	4	1.94
TRACHEA, BRONCHUS, LUNG	10	1.16	12	0.51	3	0.72	13	0.99
BREAST (FEMALE)	9	0.60	30	0.73	6	0.86	18	0.84
THYROID	0	0.00	1	1.02	0	0.00	1	2.90
BONES & JOINTS	4	2.01	10	1.82	2	2.31	2	0.72
BLADDER	0	0.00	4	3.30	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	10	1.00	21	0.77	7	1.60	11	0.80
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	0.37	0	0.00	2	0.87

Table 1-D.3

Age at death: 20 to 39

Trojan (1975)
Columbia, OR ; Cowlitz, WA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.14	1.12	1.30	1.33
ALL CANCER, EXCL LEUK	1.01	1.19	1.21	1.02
HODGKIN'S DISEASE	1.02	1.58	1.20	0.78
OTHER LYMPHOMA	1.45	2.46	1.80	1.07
MULTIPLE MYELOMA	1.38	-	0.00	0.00
DIGESTIVE ORGANS	0.59	1.75	1.71	0.58
STOMACH	0.92	0.00	0.00	0.51
COLON & RECTUM	0.46	3.17	2.89	0.42
LIVER (PRIMARY)	1.86	0.00	0.00	3.08
TRACHEA, BRONCHUS, LUNG	2.27	0.73	0.62	1.94
BREAST (FEMALE)	0.82	1.02	1.43	1.15
THYROID	0.00	0.00	-	2.84
BONES & JOINTS	1.10	3.21	1.15	0.40
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	1.30	2.00	1.60	1.04
BENIGN & UNSPEC NEOPLASMS	0.00	0.00	-	2.35

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.3

Age at death: 40 to 59

Trojan (1975)
Columbia, OR ; Cowlitz, WA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	28	0.90	87	0.95	10	0.90	28	0.80
ALL CANCER, EXCL LEUK	765	0.87	2362	0.91	342	0.96	1149	1.02
HODGKIN'S DISEASE	12	0.99	39	1.10	1	0.45	5	0.72
OTHER LYMPHOMA	29	1.05	74	0.91	7	0.61	36	1.00
MULTIPLE MYELOMA	10	1.06	28	0.99	5	1.15	12	0.87
DIGESTIVE ORGANS	180	0.78	605	0.88	55	0.73	241	1.01
STOMACH	25	0.59	110	0.87	4	0.41	42	1.37
COLON & RECTUM	72	0.71	242	0.80	22	0.64	103	0.95
LIVER (PRIMARY)	22	1.01	51	0.78	2	0.49	8	0.61
TRACHEA, BRONCHUS, LUNG	155	0.83	483	0.88	127	1.15	428	1.23
BREAST (FEMALE)	111	0.93	323	0.90	49	1.01	128	0.84
THYROID	3	1.08	6	0.72	0	0.00	3	1.29
BONES & JOINTS	4	0.81	11	0.75	0	0.00	4	1.34
BLADDER	11	0.83	36	0.91	4	1.04	12	0.99
BRAIN & OTHER C.N.S.	39	1.14	102	1.02	7	0.53	44	1.08
BENIGN & UNSPEC NEOPLASMS	1	0.29	6	0.58	2	0.89	5	0.71

Table 1-D.3

Age at death: 40 to 59

Trojan (1975)
Columbia, OR ; Cowlitz, WA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.95	1.13	1.00	0.84
ALL CANCER, EXCL LEUK	0.96	0.94	1.10	1.12**
HODGKIN'S DISEASE	0.90	0.63	0.45	0.65
OTHER LYMPHOMA	1.15	0.61	0.58	1.10
MULTIPLE MYELOMA	1.07	1.32	1.08	0.88
DIGESTIVE ORGANS	0.89	0.72*	0.94	1.15
STOMACH	0.68	0.30*	0.69	1.57*
COLON & RECTUM	0.89	0.67	0.90	1.19
LIVER (PRIMARY)	1.29	0.80	0.49	0.78
TRACHEA, BRONCHUS, LUNG	0.94	0.93	1.39**	1.40***
BREAST (FEMALE)	1.03	1.20	1.09	0.93
THYROID	1.50	0.00	0.00	1.79
BONES & JOINTS	1.08	0.00	0.00	1.79
BLADDER	0.91	1.05	1.25	1.09
BRAIN & OTHER C.N.S.	1.12	0.49	0.46	1.06
BENIGN & UNSPEC NEOPLASMS	0.50	1.25	3.07	1.22

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.3

Age at death: 60 plus

Trojan (1975)
Columbia, OR ; Cowlitz, WA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	86	0.98	268	0.92	63	1.25	170	1.04
ALL CANCER, EXCL LEUK	2081	0.93	7224	0.97	1288	0.97	4294	0.99
HODGKIN'S DISEASE	12	0.87	44	0.97	3	0.71	11	0.80
OTHER LYMPHOMA	57	1.01	201	1.08	47	1.12	120	0.88
MULTIPLE MYELOMA	31	1.13	104	1.15	25	1.12	75	1.02
DIGESTIVE ORGANS	749	0.88	2691	0.95	375	0.96	1235	0.96
STOMACH	194	1.10	677	1.13	34	0.69	160	0.99
COLON & RECTUM	307	0.80	1059	0.82	191	0.97	587	0.91
LIVER (PRIMARY)	60	0.76	219	0.83	11	0.59	62	1.01
TRACHEA, BRONCHUS, LUNG	414	1.07	1239	0.99	360	1.04	1243	1.10
BREAST (FEMALE)	133	0.87	505	0.99	97	1.02	291	0.93
THYROID	10	1.18	33	1.17	4	1.18	12	1.08
BONES & JOINTS	7	0.58	19	0.47	1	0.33	14	1.44
BLADDER	73	0.86	286	1.01	40	0.98	123	0.93
BRAIN & OTHER C.N.S.	20	0.69	95	1.02	25	0.96	88	1.03
BENIGN & UNSPEC NEOPLASMS	3	0.39	16	0.64	5	0.63	23	0.89

Table 1-D.3

Age at death: 60 plus

Trojan (1975)
Columbia, OR ; Cowlitz, WA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.07	1.20	1.28	1.13
ALL CANCER, EXCL LEUK	0.96	0.98	1.04	1.02
HODGKIN'S DISEASE	0.90	0.89	0.82	0.82
OTHER LYMPHOMA	0.94	1.27	1.11	0.81
MULTIPLE MYELOMA	0.98	1.10	0.99	0.89
DIGESTIVE ORGANS	0.93	1.00	1.09	1.01
STOMACH	0.97	0.70	0.63*	0.88
COLON & RECTUM	0.98	1.07	1.21*	1.11*
LIVER (PRIMARY)	0.92	0.58	0.78	1.22
TRACHEA, BRONCHUS, LUNG	1.08	0.95	0.97	1.11*
BREAST (FEMALE)	0.88	1.10	1.17	0.94
THYROID	1.01	1.09	1.00	0.92
BONES & JOINTS	1.23	0.23	0.57	3.06**
BLADDER	0.85	1.05	1.14	0.92
BRAIN & OTHER C.N.S.	0.68	0.93	1.39	1.01
BENIGN & UNSPEC NEOPLASMS	0.61	0.71	1.62	1.39

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-D.3

Age at death: all

Trojan (1975)
Columbia, OR ; Cowlitz, WA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	153	0.96	465	0.94	84	1.15	235	1.00
ALL CANCER, EXCL LEUK	2992	0.92	9952	0.95	1688	0.97	5592	0.99
HODGKIN'S DISEASE	38	1.00	116	1.02	8	0.83	25	0.82
OTHER LYMPHOMA	97	1.01	303	1.01	61	1.06	166	0.89
MULTIPLE MYELOMA	42	1.12	134	1.12	30	1.11	87	0.99
DIGESTIVE ORGANS	943	0.86	3346	0.93	437	0.92	1487	0.97
STOMACH	221	0.99	793	1.08	38	0.63	203	1.04
COLON & RECTUM	384	0.77	1326	0.82	218	0.93	694	0.91
LIVER (PRIMARY)	86	0.83	275	0.81	13	0.55	74	0.95
TRACHEA, BRONCHUS, LUNG	579	1.00	1734	0.95	490	1.07	1684	1.13
BREAST (FEMALE)	253	0.88	858	0.94	152	1.01	437	0.90
THYROID	13	1.11	40	1.06	4	0.94	16	1.16
BONES & JOINTS	18	0.78	48	0.67	5	0.85	25	1.33
BLADDER	84	0.85	326	1.01	44	0.98	135	0.93
BRAIN & OTHER C.N.S.	89	1.04	254	1.00	43	0.92	149	1.00
BENIGN & UNSPEC NEOPLASMS	7	0.53	24	0.59	10	0.87	32	0.87

Table 1-D.3

Age at death: all

Trojan (1975)
Columbia, OR ; Cowlitz, WA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.02	1.15	1.20	1.06
ALL CANCER, EXCL LEUK	0.97	0.98	1.05	1.04*
HODGKIN'S DISEASE	0.98	1.01	0.83	0.80
OTHER LYMPHOMA	1.00	1.19	1.05	0.88
MULTIPLE MYELOMA	1.00	1.12	0.99	0.88
DIGESTIVE ORGANS	0.92*	0.95	1.07	1.04
STOMACH	0.92	0.61**	0.64**	0.96
COLON & RECTUM	0.94	1.02	1.21*	1.11*
LIVER (PRIMARY)	1.02	0.58	0.66	1.17
TRACHEA, BRONCHUS, LUNG	1.05	0.95	1.07	1.19***
BREAST (FEMALE)	0.94	1.12	1.15	0.96
THYROID	1.05	0.81	0.85	1.09
BONES & JOINTS	1.16	0.64	1.09	1.99*
BLADDER	0.84	1.05	1.15	0.92
BRAIN & OTHER C.N.S.	1.04	0.92	0.88	1.00
BENIGN & UNSPEC NEOPLASMS	0.90	1.00	1.64	1.47

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.4

Age at death: under 10

Fort St. Vrain (1976)
Boulder, CO ; Larimer, CO ; Weld, CO

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	56	1.16	66	1.08	7	0.73	5	0.44
ALL CANCER, EXCL LEUK	46	0.92	66	1.04	12	0.83	16	0.93
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	8	1.20	17	2.02	1	0.73	3	1.84
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	3	1.19	8	2.51	1	1.25	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	2	1.27	8	4.04	1	1.58	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	1	1.91	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	1	0.55	1	0.43	1	2.23	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	18	0.91	21	0.83	8	1.57	6	0.99
BENIGN & UNSPEC NEOPLASMS	1	0.49	3	1.20	3	2.75	0	0.00

Table 1-D.4

Age at death: under 10

Fort St. Vrain (1976)
Boulder, CO ; Larimer, CO ; Weld, CO

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.07	1.66	0.63	0.41*
ALL CANCER, EXCL LEUK	0.88	0.89	0.90	0.89
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	0.59	0.40	0.61	0.91
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.47	-	1.05	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.31	-	1.24	0.00
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.28	-	4.05	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.10	1.59	1.73	1.19
BENIGN & UNSPEC NEOPLASMS	0.41	-	5.61	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.4

Age at death: 10 to 19

Fort St. Vrain (1976)
Boulder, CO ; Larimer, CO ; Weld, CO

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	26	0.88	33	0.98	13	1.21	7	0.58
ALL CANCER, EXCL LEUK	44	0.78	61	0.96	16	0.82	15	0.69
HODGKIN'S DISEASE	6	1.04	6	0.96	0	0.00	0	0.00
OTHER LYMPHOMA	7	0.85	10	1.06	1	0.36	2	0.65
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	2	0.76	3	1.02	4	4.36	1	0.96
STOMACH	0	0.00	0	0.00	1	24.60	0	0.00
COLON & RECTUM	2	2.08	2	1.86	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	1	0.98	3	7.05	1	2.07
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	7	0.66	15	1.26	2	0.57	2	0.52
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	8	0.58	14	0.88	5	1.03	1	0.18
BENIGN & UNSPEC NEOPLASMS	1	0.55	2	0.98	0	0.00	0	0.00

Table 1-D.4

Age at death: 10 to 19

Fort St. Vrain (1976)
Boulder, CO ; Larimer, CO ; Weld, CO

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.90	2.09	1.38	0.59
ALL CANCER, EXCL LEUK	0.81	1.19	1.05	0.72
HODGKIN'S DISEASE	1.08	-	0.00	0.00
OTHER LYMPHOMA	0.80	0.55	0.42	0.61
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.75	4.54	5.74	0.94
STOMACH	-	-	-	-
COLON & RECTUM	1.12	-	0.00	0.00
LIVER (PRIMARY)	0.00	3.41	-	2.11
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.52	1.10	0.86	0.41
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.66	5.72	1.78	0.20
BENIGN & UNSPEC NEOPLASMS	0.56	-	0.00	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.4

Age at death: 20 to 39

Fort St. Vrain (1976)
Boulder, CO ; Larimer, CO ; Weld, CO

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	43	0.97	50	0.98	14	0.52	26	0.98
ALL CANCER, EXCL LEUK	262	0.77	320	0.77	157	0.83	146	0.75
HODGKIN'S DISEASE	32	0.91	36	0.90	10	0.76	10	0.80
OTHER LYMPHOMA	19	0.88	19	0.75	17	1.23	10	0.73
MULTIPLE MYELOMA	0	0.00	0	0.00	4	5.25	0	0.00
DIGESTIVE ORGANS	38	0.73	55	0.83	19	0.73	16	0.58
STOMACH	5	0.51	13	1.02	2	0.48	5	1.11
COLON & RECTUM	26	0.99	22	0.67	9	0.70	5	0.37
LIVER (PRIMARY)	0	0.00	9	1.36	1	0.35	4	1.30
TRACHEA, BRONCHUS, LUNG	13	0.49	21	0.63	10	0.61	7	0.40
BREAST (FEMALE)	21	0.49	37	0.67	19	0.70	26	0.87
THYROID	1	0.91	3	2.28	0	0.00	0	0.00
BONES & JOINTS	5	0.64	11	1.23	7	1.54	5	1.17
BLADDER	2	1.67	2	1.28	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	36	1.09	25	0.64	15	0.77	11	0.57
BENIGN & UNSPEC NEOPLASMS	4	0.83	8	1.51	2	0.66	1	0.33

Table 1-D.4

Age at death: 20 to 39

Fort St. Vrain (1976)
Boulder, CO ; Larimer, CO ; Weld, CO

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.99	0.53	0.54*	1.00
ALL CANCER, EXCL LEUK	1.00	1.11	1.08	0.97
HODGKIN'S DISEASE	1.01	0.95	0.84	0.89
OTHER LYMPHOMA	1.17	1.68	1.40	0.97
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.88	1.26	1.00	0.70
STOMACH	0.50	0.43	0.94	1.09
COLON & RECTUM	1.48	1.89	0.71	0.55
LIVER (PRIMARY)	0.00*	0.27	-	0.96
TRACHEA, BRONCHUS, LUNG	0.78	1.53	1.24	0.63
BREAST (FEMALE)	0.73	0.80	1.43	1.30
THYROID	0.40	-	0.00	0.00
BONES & JOINTS	0.52	1.32	2.41	0.95
BLADDER	1.30	-	0.00	0.00
BRAIN & OTHER C.N.S.	1.70	1.35	0.71	0.89
BENIGN & UNSPEC NEOPLASMS	0.55	2.00	0.80	0.22

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.4

Age at death: 40 to 59

Fort St. Vrain (1976)
Boulder, CO ; Larimer, CO ; Weld, CO

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	64	0.85	97	1.02	35	1.06	44	1.05
ALL CANCER, EXCL LEUK	1529	0.72	2144	0.79	774	0.75	1095	0.82
HODGKIN'S DISEASE	22	0.78	37	1.02	2	0.30	12	1.46
OTHER LYMPHOMA	66	0.98	71	0.83	37	1.09	29	0.68
MULTIPLE MYELOMA	22	0.95	30	1.01	13	1.04	15	0.91
DIGESTIVE ORGANS	390	0.71	536	0.77	177	0.82	243	0.87
STOMACH	77	0.80	107	0.87	22	0.79	47	1.30
COLON & RECTUM	175	0.72	208	0.68	87	0.88	105	0.83
LIVER (PRIMARY)	25	0.50	48	0.76	4	0.34	13	0.82
TRACHEA, BRONCHUS, LUNG	246	0.53	424	0.72	181	0.57	297	0.72
BREAST (FEMALE)	247	0.80	332	0.86	118	0.82	172	0.93
THYROID	6	0.91	8	0.96	0	0.00	2	0.74
BONES & JOINTS	6	0.53	8	0.55	3	1.11	3	0.88
BLADDER	24	0.79	36	0.93	9	0.84	9	0.66
BRAIN & OTHER C.N.S.	69	0.83	98	0.93	38	0.98	37	0.77
BENIGN & UNSPEC NEOPLASMS	10	0.92	15	1.09	5	0.84	6	0.79

Table 1-D.4

Age at death: 40 to 59

Fort St. Vrain (1976)
Boulder, CO ; Larimer, CO ; Weld, CO

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.83	1.01	1.25	1.03
ALL CANCER, EXCL LEUK	0.91**	0.91*	1.04	1.04
HODGKIN'S DISEASE	0.76	0.21*	0.38	1.43
OTHER LYMPHOMA	1.18	1.60	1.11	0.82
MULTIPLE MYELOMA	0.94	1.14	1.09	0.90
DIGESTIVE ORGANS	0.92	0.94	1.15	1.13
STOMACH	0.92	0.61	0.99	1.49*
COLON & RECTUM	1.06	1.06	1.22	1.22
LIVER (PRIMARY)	0.66	0.41	0.68	1.08
TRACHEA, BRONCHUS, LUNG	0.74***	0.79*	1.08	1.00
BREAST (FEMALE)	0.93	0.88	1.03	1.08
THYROID	0.95	0.00	0.00	0.77
BONES & JOINTS	0.96	1.26	2.09	1.60
BLADDER	0.85	1.27	1.06	0.71
BRAIN & OTHER C.N.S.	0.89	1.27	1.18	0.83
BENIGN & UNSPEC NEOPLASMS	0.84	1.06	0.91	0.72

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.4

Age at death: 60 plus

Fort St. Vrain (1976)
Boulder, CO ; Larimer, CO ; Weld, CO

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	248	0.98	313	1.07	108	0.81	139	0.90
ALL CANCER, EXCL LEUK	5016	0.78	6118	0.81	2840	0.82	3580	0.88
HODGKIN'S DISEASE	37	0.99	31	0.71	17	1.57	10	0.79
OTHER LYMPHOMA	172	1.05	196	1.04	121	1.08	118	0.91
MULTIPLE MYELOMA	85	1.06	99	1.06	64	1.08	78	1.12
DIGESTIVE ORGANS	1829	0.74	2270	0.79	866	0.83	1053	0.87
STOMACH	401	0.80	454	0.78	106	0.82	120	0.80
COLON & RECTUM	813	0.72	990	0.75	430	0.81	537	0.88
LIVER (PRIMARY)	176	0.79	244	0.93	32	0.65	36	0.63
TRACHEA, BRONCHUS, LUNG	664	0.63	830	0.68	622	0.71	833	0.81
BREAST (FEMALE)	408	0.84	450	0.80	237	0.88	291	0.94
THYROID	13	0.52	34	1.16	6	0.65	12	1.13
BONES & JOINTS	17	0.50	29	0.74	3	0.40	6	0.69
BLADDER	185	0.76	224	0.79	75	0.70	97	0.79
BRAIN & OTHER C.N.S.	80	1.00	90	0.96	59	0.88	70	0.88
BENIGN & UNSPEC NEOPLASMS	23	0.90	31	1.06	11	0.56	19	0.84

Table 1-D.4

Age at death: 60 plus

Fort St. Vrain (1976)
Boulder, CO ; Larimer, CO ; Weld, CO

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.92	0.90	0.83	0.84
ALL CANCER, EXCL LEUK	0.96*	0.93**	1.05*	1.09***
HODGKIN'S DISEASE	1.39	1.99	1.59	1.11
OTHER LYMPHOMA	1.01	1.19	1.03	0.88
MULTIPLE MYELOMA	1.00	0.96	1.02	1.06
DIGESTIVE ORGANS	0.94*	0.95	1.12**	1.10**
STOMACH	1.03	1.03	1.03	1.03
COLON & RECTUM	0.96	0.92	1.13*	1.17**
LIVER (PRIMARY)	0.85	1.03	0.82	0.68*
TRACHEA, BRONCHUS, LUNG	0.93	0.88*	1.13*	1.19***
BREAST (FEMALE)	1.05	0.94	1.05	1.18*
THYROID	0.45*	0.58	1.25	0.97
BONES & JOINTS	0.68	0.58	0.80	0.93
BLADDER	0.96	0.89	0.92	1.00
BRAIN & OTHER C.N.S.	1.04	1.00	0.88	0.92
BENIGN & UNSPEC NEOPLASMS	0.85	0.67	0.62	0.79

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-D.4

Age at death: all

Fort St. Vrain (1976)
Boulder, CO ; Larimer, CO ; Weld, CO

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	437	0.97	559	1.05	177	0.83	221	0.90
ALL CANCER, EXCL LEUK	6897	0.76	8709	0.81	3799	0.80	4852	0.86
HODGKIN'S DISEASE	97	0.90	110	0.87	29	0.91	32	0.92
OTHER LYMPHOMA	272	1.02	313	0.98	177	1.08	162	0.85
MULTIPLE MYELOMA	107	1.02	129	1.04	81	1.11	93	1.07
DIGESTIVE ORGANS	2262	0.74	2872	0.79	1067	0.83	1313	0.87
STOMACH	483	0.79	574	0.79	131	0.81	172	0.90
COLON & RECTUM	1016	0.72	1222	0.74	526	0.82	647	0.87
LIVER (PRIMARY)	203	0.72	310	0.93	41	0.63	54	0.70
TRACHEA, BRONCHUS, LUNG	923	0.60	1276	0.69	813	0.67	1137	0.78
BREAST (FEMALE)	676	0.81	819	0.81	374	0.85	489	0.93
THYROID	20	0.60	45	1.15	6	0.51	14	1.01
BONES & JOINTS	36	0.55	64	0.83	16	0.85	16	0.77
BLADDER	211	0.76	262	0.81	84	0.71	106	0.77
BRAIN & OTHER C.N.S.	211	0.92	248	0.89	125	0.92	125	0.79
BENIGN & UNSPEC NEOPLASMS	39	0.86	59	1.12	21	0.69	26	0.73

Table 1-D.4

Age at death: all

Fort St. Vrain (1976)
Boulder, CO ; Larimer, CO ; Weld, CO

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.92	0.92	0.86	0.86
ALL CANCER, EXCL LEUK	0.94***	0.93***	1.05*	1.06***
HODGKIN'S DISEASE	1.03	0.99	1.01	1.06
OTHER LYMPHOMA	1.04	1.27*	1.06	0.87
MULTIPLE MYELOMA	0.98	1.04	1.09	1.03
DIGESTIVE ORGANS	0.94*	0.95	1.12**	1.10**
STOMACH	1.00	0.90	1.03	1.14
COLON & RECTUM	0.97	0.94	1.14*	1.18**
LIVER (PRIMARY)	0.77**	0.90	0.88	0.75
TRACHEA, BRONCHUS, LUNG	0.87**	0.86**	1.12*	1.13**
BREAST (FEMALE)	1.00	0.91	1.05	1.15*
THYROID	0.52*	0.50	0.85	0.88
BONES & JOINTS	0.66	1.10	1.55	0.93
BLADDER	0.94	0.92	0.93	0.95
BRAIN & OTHER C.N.S.	1.03	1.16	1.00	0.89
BENIGN & UNSPEC NEOPLASMS	0.77	0.95	0.80	0.65

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.5

Age at death: under 10

Salem 1,2 (1976)
New Castle, DE ; Salem, NJ

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	73	0.95	220	0.97	5	0.54	27	0.88
ALL CANCER, EXCL LEUK	78	0.94	251	1.05	14	1.00	45	0.98
HODGKIN'S DISEASE	1	0.78	4	1.10	0	0.00	0	0.00
OTHER LYMPHOMA	11	1.01	26	0.82	0	0.00	5	1.12
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	2	0.48	12	0.99	1	1.27	4	1.57
STOMACH	0	0.00	1	2.05	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	1	13.73	0	0.00
LIVER (PRIMARY)	1	0.40	7	0.95	0	0.00	4	2.08
TRACHEA, BRONCHUS, LUNG	0	0.00	2	1.01	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	1	4.86	0	0.00	0	0.00
BONES & JOINTS	4	1.36	10	1.16	0	0.00	3	2.09
BLADDER	1	2.20	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	32	0.98	95	1.00	7	1.43	10	0.62
BENIGN & UNSPEC NEOPLASMS	5	1.83	9	1.10	1	0.87	1	0.28

Table 1-D.5

Age at death: under 10

Salem 1,2 (1976)
New Castle, DE ; Salem, NJ

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.98	0.61	0.57	0.91
ALL CANCER, EXCL LEUK	0.90	1.02	1.06	0.93
HODGKIN'S DISEASE	0.71	-	0.00	0.00
OTHER LYMPHOMA	1.23	0.00	0.00	1.37
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.48	0.81	2.65	1.59
STOMACH	0.00	-	-	0.00
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.42	0.00	0.00	2.19
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	0.00	-	-	0.00
BONES & JOINTS	1.17	0.00	0.00	1.80
BLADDER	-	-	0.00	-
BRAIN & OTHER C.N.S.	0.98	2.31	1.46	0.62
BENIGN & UNSPEC NEOPLASMS	1.66	3.11	0.48	0.25

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.5

Age at death: 10 to 19

Salem 1,2 (1976)
New Castle, DE ; Salem, NJ

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	34	0.86	112	0.94	9	0.83	30	0.82
ALL CANCER, EXCL LEUK	55	0.73	196	0.87	19	0.95	69	1.04
HODGKIN'S DISEASE	3	0.41	21	0.96	3	2.27	8	1.86
OTHER LYMPHOMA	8	0.73	21	0.63	2	0.72	10	1.07
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	4	1.05	15	1.37	0	0.00	4	1.18
STOMACH	0	0.00	1	1.31	0	0.00	0	0.00
COLON & RECTUM	1	0.68	7	1.71	0	0.00	2	1.81
LIVER (PRIMARY)	3	2.31	4	1.06	0	0.00	2	1.30
TRACHEA, BRONCHUS, LUNG	0	0.00	3	1.21	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	1	1.75	0	0.00	0	0.00
BONES & JOINTS	15	1.07	33	0.79	2	0.57	16	1.36
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	11	0.58	52	0.92	4	0.80	13	0.77
BENIGN & UNSPEC NEOPLASMS	2	0.85	6	0.84	0	0.00	1	0.40

Table 1-D.5

Age at death: 10 to 19

Salem 1,2 (1976)
New Castle, DE ; Salem, NJ

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.91	1.01	0.97	0.87
ALL CANCER, EXCL LEUK	0.84	0.91	1.30	1.20
HODGKIN'S DISEASE	0.43	1.22	5.54	1.94
OTHER LYMPHOMA	1.16	0.67	0.99	1.70
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.77	0.00	0.00	0.86
STOMACH	0.00	-	-	0.00
COLON & RECTUM	0.40	0.00	0.00	1.06
LIVER (PRIMARY)	2.18	0.00	0.00	1.23
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	0.00	-	-	0.00
BONES & JOINTS	1.35	0.42	0.53	1.72
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.63	1.04	1.38	0.84
BENIGN & UNSPEC NEOPLASMS	1.01	0.00	0.00	0.48

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.5

Age at death: 20 to 39

Salem 1,2 (1976)
New Castle, DE ; Salem, NJ

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	66	1.07	148	0.79	24	1.11	97	1.24
ALL CANCER, EXCL LEUK	550	0.99	1596	0.96	167	1.02	601	0.99
HODGKIN'S DISEASE	39	0.82	157	1.08	12	1.21	47	1.29
OTHER LYMPHOMA	27	0.88	75	0.80	15	1.35	31	0.76
MULTIPLE MYELOMA	0	0.00	11	1.51	1	1.29	5	1.76
DIGESTIVE ORGANS	94	1.00	268	0.97	26	1.05	90	1.00
STOMACH	16	0.81	63	1.12	7	1.65	11	0.72
COLON & RECTUM	45	1.00	113	0.84	12	1.03	49	1.14
LIVER (PRIMARY)	9	0.91	26	0.93	1	0.34	8	0.78
TRACHEA, BRONCHUS, LUNG	49	1.08	144	1.05	20	1.31	59	1.03
BREAST (FEMALE)	70	0.90	217	0.94	28	1.07	116	1.19
THYROID	0	0.00	1	0.19	0	0.00	0	0.00
BONES & JOINTS	8	0.81	27	0.90	3	0.88	11	0.92
BLADDER	2	0.83	9	1.31	1	1.98	1	0.52
BRAIN & OTHER C.N.S.	41	0.87	118	0.81	9	0.60	44	0.78
BENIGN & UNSPEC NEOPLASMS	9	1.62	20	1.14	2	0.72	9	0.92

Table 1-D.5

Age at death: 20 to 39

Salem 1,2 (1976)
New Castle, DE ; Salem, NJ

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.35	0.90	1.04	1.57***
ALL CANCER, EXCL LEUK	1.03	1.03	1.03	1.03
HODGKIN'S DISEASE	0.76	0.94	1.48	1.19
OTHER LYMPHOMA	1.10	1.78	1.53	0.95
MULTIPLE MYELOMA	0.00	0.73	-	1.17
DIGESTIVE ORGANS	1.03	1.05	1.05	1.03
STOMACH	0.72	2.29	2.04	0.64
COLON & RECTUM	1.19	0.90	1.03	1.36
LIVER (PRIMARY)	0.98	0.44	0.37	0.84
TRACHEA, BRONCHUS, LUNG	1.03	1.27	1.21	0.98
BREAST (FEMALE)	0.96	0.90	1.19	1.27*
THYROID	0.00	-	-	0.00
BONES & JOINTS	0.90	0.96	1.09	1.02
BLADDER	0.63	3.81	2.39	0.40
BRAIN & OTHER C.N.S.	1.07	0.77	0.69	0.96
BENIGN & UNSPEC NEOPLASMS	1.42	0.78	0.44	0.81

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.5

Age at death: 40 to 59

Salem 1,2 (1976)
New Castle, DE ; Salem, NJ

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	154	1.09	368	0.87	63	1.38	153	0.95
ALL CANCER, EXCL LEUK	4709	1.12	13120	1.06	1724	1.12	5656	1.06
HODGKIN'S DISEASE	52	0.98	152	0.96	8	0.92	32	1.04
OTHER LYMPHOMA	136	1.10	367	0.97	48	1.05	156	0.96
MULTIPLE MYELOMA	49	1.00	130	0.92	25	1.23	59	0.86
DIGESTIVE ORGANS	1283	1.15	3387	1.05	407	1.22	1224	1.07
STOMACH	229	1.08	553	0.93	48	1.09	143	0.95
COLON & RECTUM	569	1.23	1563	1.14	179	1.25	570	1.13
LIVER (PRIMARY)	108	1.02	306	1.03	23	1.16	68	1.02
TRACHEA, BRONCHUS, LUNG	1024	1.15	2888	1.07	523	1.11	1775	1.08
BREAST (FEMALE)	623	1.08	1764	1.03	224	1.10	746	1.05
THYROID	13	1.00	37	0.99	4	1.31	7	0.65
BONES & JOINTS	27	1.19	73	1.11	6	1.53	14	1.03
BLADDER	93	1.49	213	1.18	23	1.45	67	1.21
BRAIN & OTHER C.N.S.	167	1.12	433	0.95	43	0.85	175	0.96
BENIGN & UNSPEC NEOPLASMS	28	1.41	88	1.38	11	1.19	37	1.18

Table 1-D.5

Age at death: 40 to 59

Salem 1,2 (1976)
New Castle, DE ; Salem, NJ

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.25*	1.45*	1.27	1.09
ALL CANCER, EXCL LEUK	1.06***	1.06*	1.00	1.00
HODGKIN'S DISEASE	1.02	0.88	0.94	1.08
OTHER LYMPHOMA	1.13	1.09	0.95	0.99
MULTIPLE MYELOMA	1.09	1.43	1.23	0.93
DIGESTIVE ORGANS	1.10**	1.14*	1.06	1.02
STOMACH	1.16	1.15	1.01	1.02
COLON & RECTUM	1.08	1.11	1.02	0.99
LIVER (PRIMARY)	0.99	1.14	1.14	0.99
TRACHEA, BRONCHUS, LUNG	1.07	1.03	0.97	1.01
BREAST (FEMALE)	1.05	1.05	1.02	1.02
THYROID	1.01	2.02	1.31	0.66
BONES & JOINTS	1.07	1.49	1.29	0.93
BLADDER	1.26	1.20	0.97	1.03
BRAIN & OTHER C.N.S.	1.18	0.89	0.76	1.01
BENIGN & UNSPEC NEOPLASMS	1.02	1.01	0.84	0.86

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.5

Age at death: 60 plus

Salem 1,2 (1976)
New Castle, DE ; Salem, NJ

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	332	1.02	926	0.89	165	1.05	563	0.97
ALL CANCER, EXCL LEUK	10134	1.15	30570	1.11	5034	1.15	18356	1.15
HODGKIN'S DISEASE	47	0.93	163	1.03	18	1.37	50	1.03
OTHER LYMPHOMA	215	1.00	630	0.91	124	0.93	453	0.92
MULTIPLE MYELOMA	110	0.96	335	0.91	84	1.05	303	1.07
DIGESTIVE ORGANS	3814	1.15	11526	1.12	1497	1.15	5550	1.17
STOMACH	730	1.05	2120	1.02	188	1.10	628	1.03
COLON & RECTUM	1836	1.24	5746	1.24	817	1.28	2950	1.26
LIVER (PRIMARY)	322	1.04	986	1.07	61	0.93	257	1.11
TRACHEA, BRONCHUS, LUNG	1897	1.30	5699	1.20	1350	1.21	4841	1.19
BREAST (FEMALE)	681	1.01	2271	1.08	397	1.17	1352	1.10
THYROID	30	0.87	113	1.07	11	0.97	35	0.85
BONES & JOINTS	51	1.13	156	1.13	7	0.75	32	0.94
BLADDER	438	1.42	1273	1.31	179	1.44	594	1.30
BRAIN & OTHER C.N.S.	122	1.10	348	0.95	76	0.91	322	1.04
BENIGN & UNSPEC NEOPLASMS	46	1.35	145	1.21	23	0.91	96	1.06

Table 1-D.5

Age at death: 60 plus

Salem 1,2 (1976)
New Castle, DE ; Salem, NJ

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.15*	1.08	1.03	1.09
ALL CANCER, EXCL LEUK	1.04***	1.00	1.00	1.04***
HODGKIN'S DISEASE	0.90	1.33	1.47	1.00
OTHER LYMPHOMA	1.10	1.01	0.93	1.01
MULTIPLE MYELOMA	1.05	0.98	1.09	1.18*
DIGESTIVE ORGANS	1.03	0.98	1.00	1.04**
STOMACH	1.03	1.07	1.05	1.01
COLON & RECTUM	1.00	1.02	1.03	1.02
LIVER (PRIMARY)	0.97	0.84	0.89	1.04
TRACHEA, BRONCHUS, LUNG	1.08**	1.02	0.93*	0.99
BREAST (FEMALE)	0.94	1.06	1.16*	1.02
THYROID	0.81	1.14	1.11	0.79
BONES & JOINTS	1.00	0.80	0.66	0.83
BLADDER	1.08	1.11	1.01	0.99
BRAIN & OTHER C.N.S.	1.16	0.88	0.83	1.09
BENIGN & UNSPEC NEOPLASMS	1.12	0.86	0.67	0.88

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.5

Age at death: all

Salem 1,2 (1976)
New Castle, DE ; Salem, NJ

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	659	1.02	1774	0.89	266	1.09	870	0.98
ALL CANCER, EXCL LEUK	15526	1.13	45733	1.09	6958	1.14	24727	1.13
HODGKIN'S DISEASE	142	0.89	497	1.02	41	1.24	137	1.14
OTHER LYMPHOMA	397	1.01	1119	0.91	189	0.98	655	0.92
MULTIPLE MYELOMA	159	0.95	476	0.92	110	1.09	367	1.03
DIGESTIVE ORGANS	5197	1.15	15208	1.10	1931	1.16	6872	1.15
STOMACH	975	1.05	2738	1.00	243	1.11	782	1.01
COLON & RECTUM	2451	1.23	7429	1.21	1009	1.27	3571	1.24
LIVER (PRIMARY)	443	1.03	1329	1.06	85	0.95	339	1.08
TRACHEA, BRONCHUS, LUNG	2970	1.24	8736	1.15	1893	1.18	6675	1.15
BREAST (FEMALE)	1374	1.04	4252	1.05	649	1.14	2214	1.08
THYROID	43	0.87	153	1.02	15	1.01	42	0.78
BONES & JOINTS	105	1.11	299	1.05	18	0.87	76	1.04
BLADDER	534	1.42	1495	1.29	203	1.44	662	1.28
BRAIN & OTHER C.N.S.	373	1.04	1046	0.93	139	0.87	564	0.97
BENIGN & UNSPEC NEOPLASMS	90	1.39	268	1.24	37	0.94	144	1.04

Table 1-D.5

Age at death: all

Salem 1,2 (1976)
New Castle, DE ; Salem, NJ

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.15**	1.11	1.07	1.10*
ALL CANCER, EXCL LEUK	1.04***	1.01	1.01	1.04***
HODGKIN'S DISEASE	0.87	1.09	1.39	1.12
OTHER LYMPHOMA	1.11	1.07	0.97	1.01
MULTIPLE MYELOMA	1.03	1.06	1.15	1.12
DIGESTIVE ORGANS	1.05*	1.01	1.01	1.05**
STOMACH	1.05	1.10	1.06	1.01
COLON & RECTUM	1.02	1.02	1.03	1.02
LIVER (PRIMARY)	0.97	0.88	0.92	1.02
TRACHEA, BRONCHUS, LUNG	1.08***	1.03	0.95	1.00
BREAST (FEMALE)	0.99	1.06	1.10	1.03
THYROID	0.85	1.29	1.16	0.76
BONES & JOINTS	1.06	0.84	0.78	0.99
BLADDER	1.10	1.13	1.01	0.99
BRAIN & OTHER C.N.S.	1.12	0.90	0.84	1.04
BENIGN & UNSPEC NEOPLASMS	1.12	0.90	0.68	0.84

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.6

Age at death: under 10

St. Lucie 1,2 (1976)
St. Lucie, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	11	1.56	23	1.06	2	1.16	3	0.77
ALL CANCER, EXCL LEUK	9	1.06	18	0.72	3	1.08	4	0.66
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	1	0.95	1	0.31	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	1	1.17	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	1	138.50	0	0.00
BRAIN & OTHER C.N.S.	2	0.61	8	0.82	2	2.09	1	0.48
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-D.6

Age at death: under 10

St. Lucie 1,2 (1976)
St. Lucie, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.47	1.51	0.74	0.73
ALL CANCER, EXCL LEUK	1.47	1.64	1.02	0.92
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	3.06	-	0.00	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	-	-	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.74	4.35	3.43	0.59
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.6

Age at death: 10 to 19

St. Lucie 1,2 (1976)
St. Lucie, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	5	1.24	9	0.64	1	0.59	4	0.83
ALL CANCER, EXCL LEUK	2	0.25	22	0.77	4	1.25	5	0.54
HODGKIN'S DISEASE	0	0.00	1	0.35	0	0.00	1	1.58
OTHER LYMPHOMA	0	0.00	4	0.99	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	3	1.85	1	5.38	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	1	1.49	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	1	12.33	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	1	0.19	0	0.00	2	1.23
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	2	1.02	5	0.75	1	1.24	1	0.46
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	1.14	0	0.00	0	0.00

Table 1-D.6

Age at death: 10 to 19

St. Lucie 1,2 (1976)
St. Lucie, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.94	0.71	0.48	1.30
ALL CANCER, EXCL LEUK	0.32	2.31	5.00	0.70
HODGKIN'S DISEASE	0.00	0.00	-	4.51
OTHER LYMPHOMA	0.00	-	-	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	-	-	-	-
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	0.00	-	6.47
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.36	2.70	1.22	0.61
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.6

Age at death: 20 to 39

St. Lucie 1,2 (1976)
St. Lucie, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	5	0.86	17	0.78	3	0.84	11	0.94
ALL CANCER, EXCL LEUK	62	1.11	165	0.93	32	1.17	71	0.89
HODGKIN'S DISEASE	8	1.96	7	0.42	2	1.25	1	0.19
OTHER LYMPHOMA	1	0.34	7	0.66	4	2.16	2	0.35
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	6	0.59	29	1.00	5	1.16	13	1.11
STOMACH	1	0.45	6	0.99	0	0.00	2	1.00
COLON & RECTUM	3	0.66	11	0.81	4	2.03	5	0.92
LIVER (PRIMARY)	0	0.00	3	0.90	1	1.86	3	1.99
TRACHEA, BRONCHUS, LUNG	8	1.65	17	1.30	5	1.95	5	0.74
BREAST (FEMALE)	6	0.77	20	0.90	3	0.70	7	0.62
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	3	3.13	4	0.97	1	1.80	3	1.45
BLADDER	0	0.00	2	2.68	0	0.00	1	4.37
BRAIN & OTHER C.N.S.	2	0.48	15	0.98	2	0.82	3	0.39
BENIGN & UNSPEC NEOPLASMS	1	1.48	2	0.87	0	0.00	1	0.73

Table 1-D.6

Age at death: 20 to 39

St. Lucie 1,2 (1976)
St. Lucie, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.10	0.89	0.98	1.21
ALL CANCER, EXCL LEUK	1.19	1.31	1.05	0.96
HODGKIN'S DISEASE	4.67**	6.58	0.64	0.45
OTHER LYMPHOMA	0.52	6.17	6.35	0.53
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.59	1.05	1.97	1.11
STOMACH	0.45	0.00	0.00	1.01
COLON & RECTUM	0.81	2.21	3.08	1.14
LIVER (PRIMARY)	0.00	0.93	-	2.21
TRACHEA, BRONCHUS, LUNG	1.27	2.64	1.18	0.57
BREAST (FEMALE)	0.86	1.13	0.91	0.69
THYROID	-	-	-	-
BONES & JOINTS	3.23	1.24	0.58	1.49
BLADDER	0.00	0.00	-	1.63
BRAIN & OTHER C.N.S.	0.49	2.10	1.71	0.40
BENIGN & UNSPEC NEOPLASMS	1.70	0.00	0.00	0.84

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-D.6

Age at death: 40 to 59

St. Lucie 1,2 (1976)
St. Lucie, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	16	1.04	39	1.09	12	1.41	10	0.67
ALL CANCER, EXCL LEUK	537	1.08	1167	1.03	331	1.11	540	1.07
HODGKIN'S DISEASE	5	0.91	15	1.15	3	1.93	2	0.71
OTHER LYMPHOMA	7	0.52	28	0.91	10	1.17	13	0.90
MULTIPLE MYELOMA	3	0.48	17	1.20	6	1.48	12	1.73
DIGESTIVE ORGANS	130	0.97	266	0.86	65	0.99	113	1.01
STOMACH	34	1.29	47	0.75	7	0.81	15	1.00
COLON & RECTUM	43	0.83	104	0.87	29	1.05	43	0.93
LIVER (PRIMARY)	10	0.78	24	0.80	4	0.99	5	0.73
TRACHEA, BRONCHUS, LUNG	136	1.26	288	1.22	121	1.32	173	1.12
BREAST (FEMALE)	45	0.70	137	0.92	33	0.84	70	1.05
THYROID	3	2.05	2	0.58	2	3.47	1	1.01
BONES & JOINTS	5	1.96	8	1.32	1	1.37	0	0.00
BLADDER	11	1.47	15	0.86	1	0.33	10	1.97
BRAIN & OTHER C.N.S.	16	1.03	48	1.34	9	0.97	10	0.62
BENIGN & UNSPEC NEOPLASMS	2	0.76	10	1.78	0	0.00	5	1.67

Table 1-D.6

Age at death: 40 to 59

St. Lucie 1,2 (1976)
St. Lucie, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.95	2.10	1.36	0.61
ALL CANCER, EXCL LEUK	1.05	1.04	1.03	1.04
HODGKIN'S DISEASE	0.79	2.72	2.12	0.62
OTHER LYMPHOMA	0.57	1.30	2.25	0.99
MULTIPLE MYELOMA	0.40	0.86	3.08	1.44
DIGESTIVE ORGANS	1.13	0.98	1.02	1.17
STOMACH	1.72*	0.81	0.63	1.33
COLON & RECTUM	0.95	1.13	1.27	1.07
LIVER (PRIMARY)	0.98	1.36	1.27	0.91
TRACHEA, BRONCHUS, LUNG	1.03	1.18	1.05	0.92
BREAST (FEMALE)	0.76	0.80	1.20	1.14
THYROID	3.53	3.44	1.69	1.74
BONES & JOINTS	1.48	-	0.70	0.00
BLADDER	1.71	0.17	0.22	2.29
BRAIN & OTHER C.N.S.	0.77	1.56	0.94	0.46*
BENIGN & UNSPEC NEOPLASMS	0.43	0.00	0.00	0.94

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.6

Age at death: 60 plus

St. Lucie 1,2 (1976)
St. Lucie, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	47	0.80	86	0.98	32	0.61	46	0.82
ALL CANCER, EXCL LEUK	1408	0.90	2298	0.91	1419	0.96	1579	0.98
HODGKIN'S DISEASE	9	1.04	9	0.68	3	0.68	6	1.32
OTHER LYMPHOMA	24	0.60	36	0.63	38	0.85	35	0.77
MULTIPLE MYELOMA	13	0.58	29	0.81	17	0.65	29	0.93
DIGESTIVE ORGANS	502	0.89	742	0.78	405	0.95	426	0.89
STOMACH	98	0.87	141	0.67	51	0.92	60	0.90
COLON & RECTUM	214	0.84	313	0.77	196	0.94	199	0.87
LIVER (PRIMARY)	53	1.13	72	0.84	22	1.02	15	0.59
TRACHEA, BRONCHUS, LUNG	307	1.02	430	1.01	387	0.97	499	1.22
BREAST (FEMALE)	101	0.98	148	0.83	90	0.89	92	0.81
THYROID	7	1.29	6	0.65	2	0.57	6	1.52
BONES & JOINTS	4	0.54	7	0.56	3	1.00	3	0.91
BLADDER	51	0.91	90	1.05	60	1.41	52	1.14
BRAIN & OTHER C.N.S.	23	1.07	31	1.04	22	0.77	28	0.98
BENIGN & UNSPEC NEOPLASMS	10	1.24	12	1.08	3	0.39	7	0.76

Table 1-D.6

Age at death: 60 plus

St. Lucie 1,2 (1976)
St. Lucie, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.82	0.74	0.76	0.84
ALL CANCER, EXCL LEUK	0.99	0.98	1.07	1.08*
HODGKIN'S DISEASE	1.53	0.52	0.65	1.94
OTHER LYMPHOMA	0.95	1.10	1.42	1.22
MULTIPLE MYELOMA	0.72	0.70	1.12	1.15
DIGESTIVE ORGANS	1.14*	1.07	1.07	1.14
STOMACH	1.30	1.02	1.06	1.34
COLON & RECTUM	1.09	1.08	1.12	1.13
LIVER (PRIMARY)	1.35	1.73	0.90	0.70
TRACHEA, BRONCHUS, LUNG	1.01	0.80***	0.95	1.21**
BREAST (FEMALE)	1.18	1.10	0.91	0.98
THYROID	1.98	0.38	0.44	2.34
BONES & JOINTS	0.96	1.10	1.85	1.63
BLADDER	0.87	1.24	1.55*	1.09
BRAIN & OTHER C.N.S.	1.03	0.79	0.72	0.94
BENIGN & UNSPEC NEOPLASMS	1.15	0.51	0.31	0.70

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.6

Age at death: all

St. Lucie 1,2 (1976)
St. Lucie, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	84	0.92	174	0.96	50	0.73	74	0.81
ALL CANCER, EXCL LEUK	2018	0.94	3670	0.94	1789	0.99	2199	0.99
HODGKIN'S DISEASE	22	1.15	32	0.70	8	1.03	10	0.75
OTHER LYMPHOMA	33	0.56	76	0.72	52	0.93	50	0.74
MULTIPLE MYELOMA	16	0.55	46	0.90	23	0.76	41	1.07
DIGESTIVE ORGANS	638	0.90	1040	0.81	476	0.96	552	0.91
STOMACH	133	0.95	194	0.69	58	0.89	77	0.92
COLON & RECTUM	260	0.84	429	0.80	229	0.96	247	0.88
LIVER (PRIMARY)	63	1.03	99	0.82	28	1.06	23	0.68
TRACHEA, BRONCHUS, LUNG	451	1.09	735	1.09	513	1.04	677	1.19
BREAST (FEMALE)	152	0.87	305	0.87	126	0.87	169	0.88
THYROID	10	1.41	8	0.60	4	0.96	7	1.36
BONES & JOINTS	12	0.95	21	0.73	5	1.02	8	0.95
BLADDER	62	0.97	107	1.02	62	1.36	63	1.24
BRAIN & OTHER C.N.S.	45	0.97	107	1.10	36	0.85	43	0.76
BENIGN & UNSPEC NEOPLASMS	13	1.08	25	1.20	3	0.30	13	0.90

Table 1-D.6

Age at death: all

St. Lucie 1,2 (1976)
St. Lucie, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.96	0.90	0.79	0.84
ALL CANCER, EXCL LEUK	1.00	1.00	1.05	1.05*
HODGKIN'S DISEASE	1.64	1.37	0.90	1.07
OTHER LYMPHOMA	0.78	1.26	1.66*	1.03
MULTIPLE MYELOMA	0.61	0.71	1.38	1.19
DIGESTIVE ORGANS	1.11*	1.05	1.07	1.12*
STOMACH	1.38**	0.97	0.94	1.33*
COLON & RECTUM	1.05	1.09	1.14	1.10
LIVER (PRIMARY)	1.26	1.56	1.03	0.83
TRACHEA, BRONCHUS, LUNG	1.00	0.87*	0.95	1.09
BREAST (FEMALE)	1.00	0.99	1.00	1.01
THYROID	2.35	0.71	0.68	2.27
BONES & JOINTS	1.30	1.07	1.07	1.30
BLADDER	0.95	1.10	1.40	1.22
BRAIN & OTHER C.N.S.	0.88	1.12	0.88	0.69*
BENIGN & UNSPEC NEOPLASMS	0.90	0.33	0.28*	0.75

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.7

Age at death: under 10

Crystal River 3 (1977)
Citrus, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1	0.48	10	0.83	0	0.00	3	0.87
ALL CANCER, EXCL LEUK	0	0.00	9	0.68	1	0.97	2	0.38
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	0	0.00	1	0.59	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	1	1.50	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	1	2.39	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	3	0.58	0	0.00	1	0.53
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	1.39	0	0.00	0	0.00

Table 1-D.7

Age at death: under 10

Crystal River 3 (1977)
Citrus, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.58	0.00	0.00	1.05
ALL CANCER, EXCL LEUK	0.00	2.55	-	0.56
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	0.00	-	-	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	0.00	-	-	0.00
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	-	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.00	0.00	-	0.91
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.7

Age at death: 10 to 19

Crystal River 3 (1977)
Citrus, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	3	2.15	6	0.76	1	1.27	1	0.25
ALL CANCER, EXCL LEUK	1	0.38	17	1.15	2	1.42	7	0.97
HODGKIN'S DISEASE	0	0.00	2	1.48	1	10.94	0	0.00
OTHER LYMPHOMA	1	2.61	2	0.92	1	5.01	2	1.96
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	0	0.00	0	0.00	1	2.93
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	0	0.00	1	6.20
TRACHEA, BRONCHUS, LUNG	0	0.00	2	12.48	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	2	0.73	0	0.00	2	1.55
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	1	1.51	5	1.34	0	0.00	1	0.54
BENIGN & UNSPEC NEOPLASMS	1	8.48	1	1.60	0	0.00	0	0.00

Table 1-D.7

Age at death: 10 to 19

Crystal River 3 (1977)
Citrus, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	2.83	5.08	0.59	0.33
ALL CANCER, EXCL LEUK	0.33	1.46	3.74	0.84
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	2.84	2.56	1.92	2.13
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	0.00	-	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	0.00	-	-
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.00	0.00	-	2.12
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.13	0.00	0.00	0.40
BENIGN & UNSPEC NEOPLASMS	5.30	-	0.00	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.7

Age at death: 20 to 39

Crystal River 3 (1977)
Citrus, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	1	0.58	15	1.46	0	0.00	5	0.68
ALL CANCER, EXCL LEUK	16	1.03	92	1.04	14	1.30	70	1.22
HODGKIN'S DISEASE	1	0.81	9	1.19	0	0.00	7	2.06
OTHER LYMPHOMA	0	0.00	7	1.36	1	1.37	5	1.28
MULTIPLE MYELOMA	0	0.00	1	2.58	0	0.00	2	7.89
DIGESTIVE ORGANS	5	1.97	9	0.62	3	1.95	8	0.98
STOMACH	1	1.98	3	1.05	1	4.03	4	3.03
COLON & RECTUM	1	0.82	4	0.58	1	1.34	2	0.50
LIVER (PRIMARY)	0	0.00	0	0.00	1	6.25	0	0.00
TRACHEA, BRONCHUS, LUNG	5	3.65	8	1.05	0	0.00	11	2.01
BREAST (FEMALE)	0	0.00	12	0.96	3	1.66	10	1.05
THYROID	0	0.00	1	3.68	0	0.00	1	7.08
BONES & JOINTS	0	0.00	2	1.20	1	5.03	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	0	0.00	9	1.15	1	0.97	6	1.09
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	0.73	0	0.00	1	1.32

Table 1-D.7

Age at death: 20 to 39

Crystal River 3 (1977)
Citrus, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.40	0.00	0.00	0.47
ALL CANCER, EXCL LEUK	0.99	1.07	1.26	1.17
HODGKIN'S DISEASE	0.68	0.00	0.00	1.73
OTHER LYMPHOMA	0.00	1.07	-	0.94
MULTIPLE MYELOMA	0.00	0.00	-	3.06
DIGESTIVE ORGANS	3.18	1.99	0.99	1.58
STOMACH	1.89	1.33	2.04	2.89
COLON & RECTUM	1.41	2.68	1.63	0.86
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	3.48	0.00	0.00	1.91
BREAST (FEMALE)	0.00	1.58	-	1.09
THYROID	0.00	0.00	-	1.92
BONES & JOINTS	0.00	-	-	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.00	0.89	-	0.95
BENIGN & UNSPEC NEOPLASMS	0.00	0.00	-	1.81

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.7

Age at death: 40 to 59

Crystal River 3 (1977)
Citrus, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	4	0.58	21	0.57	1	0.18	23	0.83
ALL CANCER, EXCL LEUK	211	0.95	1104	0.94	187	0.97	883	0.93
HODGKIN'S DISEASE	1	0.45	10	0.82	3	3.08	8	1.66
OTHER LYMPHOMA	6	0.91	23	0.65	4	0.67	19	0.64
MULTIPLE MYELOMA	2	0.75	10	0.72	4	1.67	10	0.84
DIGESTIVE ORGANS	52	0.94	260	0.88	33	0.82	187	0.94
STOMACH	7	0.76	44	0.91	2	0.40	22	0.90
COLON & RECTUM	17	0.70	114	0.87	17	0.92	86	0.94
LIVER (PRIMARY)	9	2.01	26	1.08	1	0.45	10	0.92
TRACHEA, BRONCHUS, LUNG	63	1.23	295	1.10	70	1.19	314	1.08
BREAST (FEMALE)	22	0.68	147	0.84	26	0.94	103	0.76
THYROID	1	1.59	1	0.30	0	0.00	3	1.60
BONES & JOINTS	1	0.99	6	1.10	1	2.34	0	0.00
BLADDER	3	0.97	20	1.24	0	0.00	8	0.81
BRAIN & OTHER C.N.S.	7	0.91	38	0.91	3	0.46	35	1.09
BENIGN & UNSPEC NEOPLASMS	1	0.62	7	0.86	2	2.29	0	0.00

Table 1-D.7

Age at death: 40 to 59

Crystal River 3 (1977)
Citrus, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.02	0.22	0.31	1.46
ALL CANCER, EXCL LEUK	1.01	1.04	1.02	0.99
HODGKIN'S DISEASE	0.55	1.86	6.84	2.02
OTHER LYMPHOMA	1.40	1.05	0.74	0.98
MULTIPLE MYELOMA	1.04	1.99	2.23	1.17
DIGESTIVE ORGANS	1.07	0.87	0.87	1.07
STOMACH	0.84	0.44	0.53	0.99
COLON & RECTUM	0.80	0.98	1.31	1.08
LIVER (PRIMARY)	1.86	0.49	0.22	0.85
TRACHEA, BRONCHUS, LUNG	1.12	1.10	0.97	0.98
BREAST (FEMALE)	0.81	1.24	1.38	0.90
THYROID	5.30	0.00	0.00	5.33
BONES & JOINTS	0.90	-	2.36	0.00
BLADDER	0.78	0.00	0.00	0.65
BRAIN & OTHER C.N.S.	1.00	0.42	0.51	1.20
BENIGN & UNSPEC NEOPLASMS	0.72	-	3.69	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.7

Age at death: 60 plus

Crystal River 3 (1977)
Citrus, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	30	0.66	226	0.77	38	0.74	235	0.80
ALL CANCER, EXCL LEUK	961	0.80	6024	0.79	1224	0.87	6531	0.83
HODGKIN'S DISEASE	4	0.63	27	0.65	0	0.00	18	0.75
OTHER LYMPHOMA	20	0.61	142	0.68	29	0.65	179	0.71
MULTIPLE MYELOMA	22	1.25	62	0.56	17	0.71	101	0.75
DIGESTIVE ORGANS	284	0.70	2063	0.79	340	0.85	1903	0.84
STOMACH	55	0.77	353	0.77	39	0.78	233	0.83
COLON & RECTUM	131	0.69	1055	0.86	158	0.79	970	0.86
LIVER (PRIMARY)	16	0.55	153	0.80	21	1.05	92	0.82
TRACHEA, BRONCHUS, LUNG	273	1.02	1420	0.86	382	0.97	2003	0.92
BREAST (FEMALE)	51	0.66	337	0.68	84	0.89	428	0.80
THYROID	4	1.06	25	1.02	1	0.31	10	0.54
BONES & JOINTS	1	0.20	30	0.90	3	1.09	14	0.90
BLADDER	40	0.95	238	0.87	44	1.06	205	0.87
BRAIN & OTHER C.N.S.	19	0.96	105	0.86	21	0.74	132	0.83
BENIGN & UNSPEC NEOPLASMS	3	0.37	41	0.84	1	0.15	22	0.60

Table 1-D.7

Age at death: 60 plus

Crystal River 3 (1977)
Citrus, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.86	0.93	1.12	1.04
ALL CANCER, EXCL LEUK	1.01	1.05	1.09	1.05*
HODGKIN'S DISEASE	0.97	0.00	0.00	1.15
OTHER LYMPHOMA	0.90	0.92	1.07	1.04
MULTIPLE MYELOMA	2.23**	0.95	0.57	1.34
DIGESTIVE ORGANS	0.89	1.01	1.21*	1.06
STOMACH	1.00	0.94	1.01	1.08
COLON & RECTUM	0.80*	0.92	1.14	1.00
LIVER (PRIMARY)	0.69	1.28	1.91	1.03
TRACHEA, BRONCHUS, LUNG	1.19*	1.05	0.95	1.07
BREAST (FEMALE)	0.97	1.11	1.35	1.18*
THYROID	1.04	0.57	0.29	0.53
BONES & JOINTS	0.22	1.21	5.45	1.00
BLADDER	1.09	1.22	1.12	1.00
BRAIN & OTHER C.N.S.	1.12	0.89	0.77	0.97
BENIGN & UNSPEC NEOPLASMS	0.44	0.25	0.41	0.71

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.7

Age at death: all

Crystal River 3 (1977)
Citrus, FL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	39	0.68	278	0.77	40	0.67	267	0.80
ALL CANCER, EXCL LEUK	1189	0.82	7246	0.81	1428	0.88	7493	0.84
HODGKIN'S DISEASE	6	0.60	48	0.77	4	0.67	33	1.01
OTHER LYMPHOMA	27	0.66	175	0.69	35	0.68	205	0.71
MULTIPLE MYELOMA	24	1.18	73	0.59	21	0.80	113	0.77
DIGESTIVE ORGANS	341	0.74	2333	0.80	376	0.85	2099	0.85
STOMACH	63	0.78	400	0.78	42	0.76	259	0.84
COLON & RECTUM	149	0.69	1173	0.86	176	0.80	1058	0.87
LIVER (PRIMARY)	25	0.74	180	0.83	23	1.02	103	0.83
TRACHEA, BRONCHUS, LUNG	341	1.06	1725	0.90	452	0.99	2328	0.94
BREAST (FEMALE)	73	0.65	496	0.72	113	0.91	541	0.79
THYROID	5	1.13	27	0.95	1	0.27	14	0.68
BONES & JOINTS	2	0.29	40	0.92	5	1.37	16	0.79
BLADDER	43	0.95	258	0.89	44	1.01	213	0.87
BRAIN & OTHER C.N.S.	27	0.89	160	0.89	25	0.68	175	0.87
BENIGN & UNSPEC NEOPLASMS	5	0.48	51	0.85	3	0.40	23	0.54

Table 1-D.7

Age at death: all

Crystal River 3 (1977)
Citrus, FL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.88	0.84	0.99	1.04
ALL CANCER, EXCL LEUK	1.01	1.05	1.07	1.04*
HODGKIN'S DISEASE	0.78	0.66	1.12	1.31
OTHER LYMPHOMA	0.96	0.96	1.03	1.03
MULTIPLE MYELOMA	2.00**	1.04	0.68	1.31
DIGESTIVE ORGANS	0.93	1.00	1.15	1.06*
STOMACH	1.00	0.90	0.97	1.08
COLON & RECTUM	0.80*	0.92	1.16	1.01
LIVER (PRIMARY)	0.89	1.23	1.38	1.00
TRACHEA, BRONCHUS, LUNG	1.18**	1.05	0.93	1.04
BREAST (FEMALE)	0.90	1.15	1.40*	1.10
THYROID	1.19	0.40	0.24	0.72
BONES & JOINTS	0.32	1.73	4.72	0.86
BLADDER	1.07	1.16	1.06	0.98
BRAIN & OTHER C.N.S.	1.00	0.78	0.76	0.98
BENIGN & UNSPEC NEOPLASMS	0.56	0.74	0.83	0.64

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.8

Age at death: under 10

Davis-Besse 1 (1977)
Ottawa, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	11	1.38	41	1.08	1	1.33	5	1.32
ALL CANCER, EXCL LEUK	16	1.94	48	1.21	1	0.89	8	1.39
HODGKIN'S DISEASE	0	0.00	2	3.43	0	0.00	0	0.00
OTHER LYMPHOMA	2	1.80	9	1.70	1	9.17	2	3.65
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	2.39	3	1.49	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	23.49	1	4.89	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	1	0.81	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	1	14.86	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	1	21.03	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	3	2.09	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	4	1.22	15	0.95	0	0.00	3	1.47
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-D.8

Age at death: under 10

Davis-Besse 1 (1977)
Ottawa, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.28	1.01	0.96	1.22
ALL CANCER, EXCL LEUK	1.60	0.64	0.46	1.15
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	1.06	2.51	5.09	2.15
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	1.60	-	0.00	0.00
STOMACH	-	-	-	-
COLON & RECTUM	4.80	-	0.00	0.00
LIVER (PRIMARY)	0.00	-	-	0.00
TRACHEA, BRONCHUS, LUNG	-	-	0.00	-
BREAST (FEMALE)	0.00	-	-	0.00
THYROID	-	-	-	-
BONES & JOINTS	0.00	-	-	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.28	0.00	0.00	1.55
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.8

Age at death: 10 to 19

Davis-Besse 1 (1977)
Ottawa, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	6	1.54	15	0.80	0	0.00	3	0.80
ALL CANCER, EXCL LEUK	10	1.38	41	1.17	1	0.71	10	1.51
HODGKIN'S DISEASE	0	0.00	3	0.87	0	0.00	0	0.00
OTHER LYMPHOMA	1	0.93	7	1.35	0	0.00	4	4.24
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	1	0.63	1	15.80	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	0	0.00	1	32.89	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	1	11.32	0	0.00	0	0.00
BONES & JOINTS	5	3.70	7	1.07	0	0.00	1	0.84
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	2	1.08	10	1.13	0	0.00	1	0.59
BENIGN & UNSPEC NEOPLASMS	0	0.00	0	0.00	0	0.00	0	0.00

Table 1-D.8

Age at death: 10 to 19

Davis-Besse 1 (1977)
Ottawa, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.93	0.00	0.00	1.00
ALL CANCER, EXCL LEUK	1.18	0.47	0.51	1.29
HODGKIN'S DISEASE	0.00	-	-	0.00
OTHER LYMPHOMA	0.69	0.00	0.00	3.14
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	-	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	0.00	-	-	0.00
BONES & JOINTS	3.46	0.00	0.00	0.79
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.96	0.00	0.00	0.52
BENIGN & UNSPEC NEOPLASMS	-	-	-	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.8

Age at death: 20 to 39

Davis-Besse 1 (1977)
Ottawa, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	5	0.94	27	1.10	0	0.00	8	1.18
ALL CANCER, EXCL LEUK	48	1.04	248	1.19	11	1.01	50	1.00
HODGKIN'S DISEASE	6	1.41	34	1.75	0	0.00	1	0.31
OTHER LYMPHOMA	1	0.37	12	0.99	0	0.00	6	1.71
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	7	0.92	41	1.21	1	0.66	7	1.01
STOMACH	2	1.33	10	1.50	0	0.00	2	1.82
COLON & RECTUM	2	0.53	22	1.30	0	0.00	2	0.59
LIVER (PRIMARY)	1	1.38	1	0.30	0	0.00	3	4.12
TRACHEA, BRONCHUS, LUNG	1	0.27	23	1.40	3	2.96	1	0.22
BREAST (FEMALE)	9	1.39	33	1.15	1	0.58	12	1.55
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	4	1.00	0	0.00	0	0.00
BLADDER	2	10.87	1	1.23	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	3	0.71	17	0.88	0	0.00	6	1.20
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	0.50	1	6.54	0	0.00

Table 1-D.8

Age at death: 20 to 39

Davis-Besse 1 (1977)
Ottawa, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.85	0.00	0.00	1.07
ALL CANCER, EXCL LEUK	0.87	1.01	0.97	0.84
HODGKIN'S DISEASE	0.81	0.00	0.00	0.18
OTHER LYMPHOMA	0.37	0.00	0.00	1.73
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.76	0.65	0.72	0.83
STOMACH	0.89	0.00	0.00	1.21
COLON & RECTUM	0.41	0.00	0.00	0.45
LIVER (PRIMARY)	4.60	0.00	0.00	13.73*
TRACHEA, BRONCHUS, LUNG	0.19	13.45*	10.96	0.16*
BREAST (FEMALE)	1.21	0.37	0.42	1.35
THYROID	-	-	-	-
BONES & JOINTS	0.00	-	-	0.00
BLADDER	8.84	-	0.00	0.00
BRAIN & OTHER C.N.S.	0.81	0.00	0.00	1.36
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.8

Age at death: 40 to 59

Davis-Besse 1 (1977)
Ottawa, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	23	1.70	58	1.00	2	0.56	22	1.57
ALL CANCER, EXCL LEUK	424	1.09	1592	0.96	102	0.88	434	0.96
HODGKIN'S DISEASE	12	2.37	19	0.87	0	0.00	7	2.64
OTHER LYMPHOMA	11	0.91	52	1.01	2	0.54	11	0.76
MULTIPLE MYELOMA	9	2.13	19	1.06	0	0.00	3	0.55
DIGESTIVE ORGANS	101	1.01	382	0.89	25	1.04	83	0.88
STOMACH	14	0.78	66	0.85	1	0.33	10	0.84
COLON & RECTUM	40	0.90	188	0.99	8	0.72	43	1.00
LIVER (PRIMARY)	9	0.97	39	0.97	1	0.76	5	0.96
TRACHEA, BRONCHUS, LUNG	86	1.03	351	1.00	27	0.75	147	1.05
BREAST (FEMALE)	56	1.03	201	0.86	10	0.64	58	0.92
THYROID	2	1.65	9	1.72	0	0.00	1	1.10
BONES & JOINTS	0	0.00	14	1.55	0	0.00	1	0.91
BLADDER	9	1.58	31	1.27	5	4.08	3	0.64
BRAIN & OTHER C.N.S.	20	1.34	67	1.06	5	1.20	22	1.35
BENIGN & UNSPEC NEOPLASMS	2	1.13	8	1.11	0	0.00	2	0.87

Table 1-D.8

Age at death: 40 to 59

Davis-Besse 1 (1977)
Ottawa, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.70	0.36	0.33	1.57
ALL CANCER, EXCL LEUK	1.14*	0.92	0.81	1.00
HODGKIN'S DISEASE	2.72*	0.00	0.00	3.03*
OTHER LYMPHOMA	0.90	0.71	0.59	0.75
MULTIPLE MYELOMA	2.01	0.00	0.00	0.52
DIGESTIVE ORGANS	1.13	1.18	1.03	0.99
STOMACH	0.92	0.39	0.42	0.99
COLON & RECTUM	0.91	0.72	0.80	1.01
LIVER (PRIMARY)	1.00	0.79	0.78	0.99
TRACHEA, BRONCHUS, LUNG	1.03	0.71	0.73	1.05
BREAST (FEMALE)	1.20	0.70	0.62	1.07
THYROID	0.96	0.00	0.00	0.64
BONES & JOINTS	0.00	0.00	-	0.59
BLADDER	1.24	6.38*	2.58	0.50
BRAIN & OTHER C.N.S.	1.26	0.89	0.90	1.27
BENIGN & UNSPEC NEOPLASMS	1.02	0.00	0.00	0.78

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.8

Age at death: 60 plus

Davis-Besse 1 (1977)
Ottawa, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	32	0.75	210	1.07	18	1.19	69	1.11
ALL CANCER, EXCL LEUK	1141	1.04	4698	0.93	403	0.99	1604	0.99
HODGKIN'S DISEASE	6	0.93	24	0.82	0	0.00	6	1.21
OTHER LYMPHOMA	24	0.87	108	0.86	14	1.07	58	1.10
MULTIPLE MYELOMA	17	1.25	40	0.65	8	1.15	23	0.82
DIGESTIVE ORGANS	443	1.06	1823	0.93	118	0.99	464	0.96
STOMACH	100	1.17	352	0.86	13	0.89	40	0.67
COLON & RECTUM	191	1.00	888	0.99	59	0.99	247	1.01
LIVER (PRIMARY)	43	1.12	213	1.16	3	0.52	22	0.96
TRACHEA, BRONCHUS, LUNG	171	0.92	657	0.82	99	0.91	399	0.97
BREAST (FEMALE)	85	1.06	362	0.94	36	1.17	128	1.01
THYROID	3	0.71	19	0.94	1	0.98	4	0.94
BONES & JOINTS	4	0.69	24	0.88	1	1.20	3	0.90
BLADDER	64	1.56	202	1.06	12	1.01	61	1.25
BRAIN & OTHER C.N.S.	14	0.99	47	0.77	7	0.85	25	0.79
BENIGN & UNSPEC NEOPLASMS	8	1.91	14	0.78	1	0.49	8	0.95

Table 1-D.8

Age at death: 60 plus

Davis-Besse 1 (1977)
Ottawa, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.70	1.07	1.59	1.04
ALL CANCER, EXCL LEUK	1.12***	1.00	0.95	1.06*
HODGKIN'S DISEASE	1.13	0.00	0.00	1.48
OTHER LYMPHOMA	1.01	0.97	1.23	1.28
MULTIPLE MYELOMA	1.92*	1.40	0.92	1.26
DIGESTIVE ORGANS	1.14*	1.03	0.93	1.03
STOMACH	1.36*	1.33	0.76	0.78
COLON & RECTUM	1.01	0.98	0.99	1.02
LIVER (PRIMARY)	0.97	0.54	0.46	0.83
TRACHEA, BRONCHUS, LUNG	1.12	0.94	0.99	1.18*
BREAST (FEMALE)	1.13	1.16	1.10	1.07
THYROID	0.76	1.04	1.38	1.00
BONES & JOINTS	0.78	1.33	1.74	1.02
BLADDER	1.47*	0.81	0.65	1.18
BRAIN & OTHER C.N.S.	1.29	1.08	0.86	1.03
BENIGN & UNSPEC NEOPLASMS	2.45	0.52	0.26	1.22

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-D.8

Age at death: all

Davis-Besse 1 (1977)
Ottawa, OH

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	77	1.05	351	1.05	21	0.97	107	1.19
ALL CANCER, EXCL LEUK	1639	1.06	6627	0.95	518	0.96	2106	0.99
HODGKIN'S DISEASE	24	1.45	82	1.10	0	0.00	14	1.24
OTHER LYMPHOMA	39	0.87	188	0.94	17	0.95	81	1.12
MULTIPLE MYELOMA	26	1.44	59	0.74	8	0.95	26	0.77
DIGESTIVE ORGANS	552	1.05	2250	0.93	145	1.00	554	0.95
STOMACH	116	1.10	428	0.87	14	0.78	52	0.71
COLON & RECTUM	234	0.98	1099	1.00	67	0.94	292	1.00
LIVER (PRIMARY)	53	1.09	254	1.11	5	0.69	30	1.02
TRACHEA, BRONCHUS, LUNG	259	0.95	1031	0.88	129	0.88	547	0.99
BREAST (FEMALE)	150	1.06	597	0.92	47	0.98	198	1.00
THYROID	5	0.89	29	1.11	1	0.78	5	0.94
BONES & JOINTS	9	0.87	52	1.08	1	0.62	5	0.73
BLADDER	75	1.60	234	1.08	17	1.29	64	1.19
BRAIN & OTHER C.N.S.	43	1.12	156	0.93	12	0.84	57	1.01
BENIGN & UNSPEC NEOPLASMS	10	1.46	23	0.78	2	0.69	10	0.83

Table 1-D.8

Age at death: all

Davis-Besse 1 (1977)
Ottawa, OH

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	0.82	0.92	1.13
ALL CANCER, EXCL LEUK	1.12***	0.97	0.91	1.04
HODGKIN'S DISEASE	1.32	0.00	0.00	1.13
OTHER LYMPHOMA	0.93	0.85	1.09	1.19
MULTIPLE MYELOMA	1.95**	1.23	0.66	1.04
DIGESTIVE ORGANS	1.13*	1.05	0.95	1.02
STOMACH	1.26*	1.10	0.71	0.82
COLON & RECTUM	0.98	0.94	0.96	1.00
LIVER (PRIMARY)	0.98	0.68	0.63	0.92
TRACHEA, BRONCHUS, LUNG	1.08	0.89	0.93	1.13*
BREAST (FEMALE)	1.15	0.98	0.92	1.09
THYROID	0.80	0.83	0.88	0.85
BONES & JOINTS	0.81	0.85	0.71	0.68
BLADDER	1.48**	1.08	0.81	1.10
BRAIN & OTHER C.N.S.	1.20	0.83	0.75	1.09
BENIGN & UNSPEC NEOPLASMS	1.87	0.83	0.47	1.06

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.9

Age at death: under 10

Farley 1,2 (1977)
Early, GA ; Houston, AL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	14	1.05	22	0.60	1	0.57	5	1.06
ALL CANCER, EXCL LEUK	13	0.82	50	1.13	2	0.72	6	0.79
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	4	2.00	7	1.27	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	2	0.86	0	0.00	1	2.23
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	1	21.21
LIVER (PRIMARY)	0	0.00	1	0.77	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	1	34.61
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	7	1.14	23	1.35	2	2.08	3	1.14
BENIGN & UNSPEC NEOPLASMS	1	1.74	2	1.19	0	0.00	0	0.00

Table 1-D.9

Age at death: under 10

Farley 1,2 (1977)
Early, GA ; Houston, AL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.75	0.54	0.54	1.77
ALL CANCER, EXCL LEUK	0.73	0.91	0.88	0.70
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	1.57	-	0.00	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	0.00	-	2.59
STOMACH	-	-	-	-
COLON & RECTUM	-	0.00	-	-
LIVER (PRIMARY)	0.00	-	-	0.00
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	0.00	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	-	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.84	1.82	1.82	0.84
BENIGN & UNSPEC NEOPLASMS	1.46	-	0.00	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.9

Age at death: 10 to 19

Farley 1,2 (1977)
Early, GA ; Houston, AL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	13	1.70	15	0.66	2	1.14	5	0.89
ALL CANCER, EXCL LEUK	16	1.04	48	1.03	3	0.91	7	0.65
HODGKIN'S DISEASE	3	2.08	4	0.90	0	0.00	0	0.00
OTHER LYMPHOMA	4	1.87	6	0.93	0	0.00	1	0.68
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	0	0.00	6	2.10	1	5.25	0	0.00
STOMACH	0	0.00	2	8.28	0	0.00	0	0.00
COLON & RECTUM	0	0.00	2	1.65	0	0.00	0	0.00
LIVER (PRIMARY)	0	0.00	2	2.19	1	11.91	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	2	3.55	0	0.00	1	10.12
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	1	50.48
BONES & JOINTS	0	0.00	10	1.19	1	1.78	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	3	0.81	9	0.82	1	1.21	2	0.76
BENIGN & UNSPEC NEOPLASMS	0	0.00	1	0.70	0	0.00	0	0.00

Table 1-D.9

Age at death: 10 to 19

Farley 1,2 (1977)
Early, GA ; Houston, AL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	2.58*	1.28	0.67	1.35
ALL CANCER, EXCL LEUK	1.01	1.40	0.88	0.63
HODGKIN'S DISEASE	2.31	-	0.00	0.00
OTHER LYMPHOMA	2.01	0.00	0.00	0.73
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.00	-	-	0.00
STOMACH	0.00	-	-	0.00
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	0.00	-	-	0.00
TRACHEA, BRONCHUS, LUNG	0.00	0.00	-	2.85
BREAST (FEMALE)	-	-	-	-
THYROID	-	0.00	-	-
BONES & JOINTS	0.00	-	-	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.99	1.59	1.49	0.93
BENIGN & UNSPEC NEOPLASMS	0.00	-	-	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.9

Age at death: 20 to 39

Farley 1,2 (1977)
Early, GA ; Houston, AL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	8	0.76	25	0.78	3	0.87	9	0.81
ALL CANCER, EXCL LEUK	93	0.94	282	1.00	20	0.73	79	0.96
HODGKIN'S DISEASE	3	0.40	14	0.61	0	0.00	4	0.83
OTHER LYMPHOMA	6	1.16	14	0.89	1	0.56	7	1.23
MULTIPLE MYELOMA	0	0.00	1	0.74	0	0.00	0	0.00
DIGESTIVE ORGANS	13	0.75	44	0.90	7	1.64	10	0.77
STOMACH	2	0.52	12	1.14	2	2.65	0	0.00
COLON & RECTUM	8	1.00	21	0.94	2	1.02	5	0.85
LIVER (PRIMARY)	2	1.02	5	0.88	1	1.90	3	1.77
TRACHEA, BRONCHUS, LUNG	4	0.51	23	1.04	3	1.15	8	1.05
BREAST (FEMALE)	17	1.21	44	1.16	4	0.89	9	0.69
THYROID	1	3.16	1	1.12	0	0.00	1	5.06
BONES & JOINTS	4	2.30	9	1.55	0	0.00	0	0.00
BLADDER	0	0.00	1	0.76	1	11.46	0	0.00
BRAIN & OTHER C.N.S.	6	0.78	24	1.06	1	0.42	15	2.05
BENIGN & UNSPEC NEOPLASMS	1	0.95	3	0.89	0	0.00	2	1.56

Table 1-D.9

Age at death: 20 to 39

Farley 1,2 (1977)
Early, GA ; Houston, AL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.97	1.07	1.14	1.04
ALL CANCER, EXCL LEUK	0.94	0.76	0.78	0.96
HODGKIN'S DISEASE	0.66	0.00	0.00	1.36
OTHER LYMPHOMA	1.30	0.46	0.48	1.38
MULTIPLE MYELOMA	0.00	-	-	0.00
DIGESTIVE ORGANS	0.83	2.13	2.19	0.86
STOMACH	0.46	-	5.10	0.00
COLON & RECTUM	1.06	1.20	1.02	0.90
LIVER (PRIMARY)	1.16	1.07	1.86	2.01
TRACHEA, BRONCHUS, LUNG	0.49	1.10	2.25	1.01
BREAST (FEMALE)	1.04	1.29	0.74	0.59
THYROID	2.82	0.00	0.00	4.52
BONES & JOINTS	1.48	-	0.00	0.00
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	0.74	0.20	0.54	1.93
BENIGN & UNSPEC NEOPLASMS	1.07	0.00	0.00	1.75

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.9

Age at death: 40 to 59

Farley 1,2 (1977)
Early, GA ; Houston, AL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	15	0.63	66	1.08	8	1.15	20	1.04
ALL CANCER, EXCL LEUK	615	0.81	1791	0.91	208	0.87	681	1.04
HODGKIN'S DISEASE	12	1.40	21	0.96	1	0.78	2	0.56
OTHER LYMPHOMA	14	0.69	39	0.75	7	1.03	26	1.40
MULTIPLE MYELOMA	8	0.83	16	0.64	2	0.60	13	1.42
DIGESTIVE ORGANS	147	0.71	411	0.77	37	0.70	138	0.95
STOMACH	36	0.85	110	1.00	3	0.42	15	0.76
COLON & RECTUM	37	0.46	124	0.61	7	0.32	61	1.02
LIVER (PRIMARY)	23	1.12	50	0.95	5	1.52	12	1.32
TRACHEA, BRONCHUS, LUNG	130	0.83	380	0.93	76	1.04	213	1.06
BREAST (FEMALE)	61	0.60	201	0.78	17	0.54	79	0.92
THYROID	2	0.85	3	0.50	0	0.00	0	0.00
BONES & JOINTS	2	0.49	11	1.05	0	0.00	3	1.86
BLADDER	8	0.68	30	0.99	3	1.27	5	0.77
BRAIN & OTHER C.N.S.	15	0.63	73	1.22	9	1.21	19	0.93
BENIGN & UNSPEC NEOPLASMS	4	1.11	13	1.32	2	1.54	6	1.68

Table 1-D.9

Age at death: 40 to 59

Farley 1,2 (1977)
Early, GA ; Houston, AL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.58	1.11	1.83	0.96
ALL CANCER, EXCL LEUK	0.89*	0.84*	1.07	1.14**
HODGKIN'S DISEASE	1.46	1.39	0.56	0.58
OTHER LYMPHOMA	0.92	0.74	1.49	1.87*
MULTIPLE MYELOMA	1.30	0.42	0.72	2.22
DIGESTIVE ORGANS	0.92	0.74	0.99	1.23*
STOMACH	0.85	0.55	0.49	0.76
COLON & RECTUM	0.75	0.31**	0.70	1.67**
LIVER (PRIMARY)	1.18	1.15	1.36	1.39
TRACHEA, BRONCHUS, LUNG	0.89	0.98	1.25	1.14
BREAST (FEMALE)	0.77	0.59*	0.90	1.18
THYROID	1.70	-	0.00	0.00
BONES & JOINTS	0.47	0.00	0.00	1.77
BLADDER	0.69	1.65	1.87	0.78
BRAIN & OTHER C.N.S.	0.52*	1.30	1.92	0.76
BENIGN & UNSPEC NEOPLASMS	0.84	0.92	1.39	1.27

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.9

Age at death: 60 plus

Farley 1,2 (1977)
Early, GA ; Houston, AL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	61	1.02	110	0.76	19	0.70	74	1.11
ALL CANCER, EXCL LEUK	1303	0.75	3474	0.81	644	0.81	1795	0.91
HODGKIN'S DISEASE	10	1.12	15	0.71	4	1.83	8	1.51
OTHER LYMPHOMA	31	0.79	66	0.70	15	0.66	42	0.77
MULTIPLE MYELOMA	22	0.89	43	0.69	9	0.57	35	0.88
DIGESTIVE ORGANS	429	0.66	1113	0.69	154	0.65	465	0.78
STOMACH	100	0.70	214	0.59	16	0.49	64	0.77
COLON & RECTUM	181	0.65	450	0.66	68	0.60	209	0.75
LIVER (PRIMARY)	30	0.51	124	0.86	7	0.56	23	0.73
TRACHEA, BRONCHUS, LUNG	202	0.70	616	0.89	204	1.03	486	0.99
BREAST (FEMALE)	86	0.68	220	0.70	40	0.67	112	0.75
THYROID	3	0.46	11	0.69	1	0.50	5	1.01
BONES & JOINTS	11	1.29	23	1.10	0	0.00	1	0.26
BLADDER	30	0.52	125	0.88	14	0.65	45	0.85
BRAIN & OTHER C.N.S.	14	0.68	40	0.83	17	1.21	31	0.90
BENIGN & UNSPEC NEOPLASMS	5	0.65	18	0.94	7	1.64	5	0.46

Table 1-D.9

Age at death: 60 plus

Farley 1,2 (1977)
Early, GA ; Houston, AL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.34	0.63	0.69	1.46*
ALL CANCER, EXCL LEUK	0.93*	0.89*	1.08	1.12***
HODGKIN'S DISEASE	1.58	1.21	1.63	2.13
OTHER LYMPHOMA	1.13	0.86	0.84	1.10
MULTIPLE MYELOMA	1.29	0.65	0.64	1.28
DIGESTIVE ORGANS	0.96	0.83*	0.98	1.13*
STOMACH	1.19	0.64	0.70	1.31
COLON & RECTUM	0.98	0.80	0.92	1.14
LIVER (PRIMARY)	0.59*	0.77	1.10	0.85
TRACHEA, BRONCHUS, LUNG	0.79**	1.04	1.47***	1.11
BREAST (FEMALE)	0.97	0.89	0.99	1.07
THYROID	0.67	0.50	1.09	1.46
BONES & JOINTS	1.17	0.00	0.00	0.24
BLADDER	0.59**	0.76	1.25	0.97
BRAIN & OTHER C.N.S.	0.82	1.34	1.78	1.08
BENIGN & UNSPEC NEOPLASMS	0.69	3.57	2.52	0.49

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.9

Age at death: all

Farley 1,2 (1977)
Early, GA ; Houston, AL

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	111	0.96	238	0.80	33	0.80	113	1.05
ALL CANCER, EXCL LEUK	2040	0.78	5645	0.85	877	0.82	2568	0.94
HODGKIN'S DISEASE	28	1.04	54	0.76	5	0.96	14	0.97
OTHER LYMPHOMA	59	0.85	132	0.76	23	0.72	76	0.94
MULTIPLE MYELOMA	30	0.86	60	0.67	11	0.57	48	0.97
DIGESTIVE ORGANS	589	0.68	1576	0.72	199	0.67	614	0.82
STOMACH	138	0.73	338	0.70	21	0.52	79	0.75
COLON & RECTUM	226	0.62	597	0.66	77	0.56	276	0.80
LIVER (PRIMARY)	55	0.67	182	0.89	14	0.85	38	0.88
TRACHEA, BRONCHUS, LUNG	336	0.74	1021	0.91	283	1.03	708	1.01
BREAST (FEMALE)	164	0.68	465	0.76	61	0.64	201	0.81
THYROID	6	0.65	15	0.65	1	0.40	7	1.09
BONES & JOINTS	17	0.96	53	1.13	1	0.31	4	0.43
BLADDER	38	0.54	156	0.90	18	0.75	50	0.84
BRAIN & OTHER C.N.S.	45	0.73	169	1.06	30	1.17	70	1.04
BENIGN & UNSPEC NEOPLASMS	11	0.83	37	1.04	9	1.43	13	0.78

Table 1-D.9

Age at death: all

Farley 1,2 (1977)
Early, GA ; Houston, AL

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.20	0.76	0.83	1.31*
ALL CANCER, EXCL LEUK	0.92***	0.87***	1.05	1.11***
HODGKIN'S DISEASE	1.37	0.99	0.92	1.28
OTHER LYMPHOMA	1.12	0.77	0.85	1.24
MULTIPLE MYELOMA	1.28	0.59	0.66	1.45
DIGESTIVE ORGANS	0.94	0.82*	0.99	1.14**
STOMACH	1.04	0.69	0.71	1.07
COLON & RECTUM	0.94	0.70**	0.90	1.21**
LIVER (PRIMARY)	0.75	0.97	1.27	0.99
TRACHEA, BRONCHUS, LUNG	0.81**	1.02	1.39***	1.11*
BREAST (FEMALE)	0.89	0.79	0.94	1.07
THYROID	1.00	0.37	0.62	1.68
BONES & JOINTS	0.85	0.72	0.32	0.38
BLADDER	0.60**	0.89	1.39	0.93
BRAIN & OTHER C.N.S.	0.69*	1.13	1.60	0.98
BENIGN & UNSPEC NEOPLASMS	0.80	1.83	1.72	0.75

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.10

Age at death: under 10

North Anna 1,2 (1978)
Caroline, VA ; Hanover, VA ; Louisa, VA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	16	1.48	18	1.05	0	0.00	1	0.60
ALL CANCER, EXCL LEUK	9	0.70	10	0.48	2	1.02	1	0.37
HODGKIN'S DISEASE	0	0.00	0	0.00	0	0.00	0	0.00
OTHER LYMPHOMA	1	0.61	1	0.38	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	1.50	0	0.00	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	0	0.00	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	1	2.64	0	0.00	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	0	0.00	0	0.00	0	0.00	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	2	0.40	5	0.62	0	0.00	0	0.00
BENIGN & UNSPEC NEOPLASMS	1	1.88	2	2.76	0	0.00	0	0.00

Table 1-D.10

Age at death: under 10

North Anna 1,2 (1978)
Caroline, VA ; Hanover, VA ; Louisa, VA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.41	0.00	0.00	0.57
ALL CANCER, EXCL LEUK	1.46	2.76	1.46	0.77
HODGKIN'S DISEASE	-	-	-	-
OTHER LYMPHOMA	1.61	-	0.00	0.00
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	-	-	0.00	-
STOMACH	-	-	-	-
COLON & RECTUM	-	-	-	-
LIVER (PRIMARY)	-	-	0.00	-
TRACHEA, BRONCHUS, LUNG	-	-	-	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	-	-	-	-
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.65	-	0.00	0.00
BENIGN & UNSPEC NEOPLASMS	0.68	-	0.00	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.10

Age at death: 20 to 39

North Anna 1,2 (1978)
Caroline, VA ; Hanover, VA ; Louisa, VA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	12	1.23	14	0.95	5	1.67	3	0.74
ALL CANCER, EXCL LEUK	83	0.93	144	1.05	33	1.35	30	0.91
HODGKIN'S DISEASE	7	1.03	11	1.07	2	1.55	1	0.57
OTHER LYMPHOMA	4	0.82	10	1.37	1	0.62	1	0.46
MULTIPLE MYELOMA	1	2.19	1	1.42	0	0.00	0	0.00
DIGESTIVE ORGANS	22	1.37	31	1.25	2	0.52	5	0.96
STOMACH	6	1.73	5	0.91	0	0.00	1	1.09
COLON & RECTUM	12	1.65	19	1.70	1	0.57	2	0.84
LIVER (PRIMARY)	1	0.54	1	0.35	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	8	1.01	9	0.77	3	1.23	3	0.91
BREAST (FEMALE)	8	0.64	16	0.84	5	1.22	9	1.61
THYROID	0	0.00	1	2.33	0	0.00	0	0.00
BONES & JOINTS	0	0.00	3	1.22	0	0.00	2	3.48
BLADDER	0	0.00	0	0.00	1	12.11	0	0.00
BRAIN & OTHER C.N.S.	5	0.71	10	0.94	3	1.41	1	0.35
BENIGN & UNSPEC NEOPLASMS	1	0.85	0	0.00	0	0.00	0	0.00

Table 1-D.10

Age at death: 20 to 39

North Anna 1,2 (1978)
Caroline, VA ; Hanover, VA ; Louisa, VA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.29	2.26	1.36	0.78
ALL CANCER, EXCL LEUK	0.89	1.48	1.45	0.87
HODGKIN'S DISEASE	0.96	2.72	1.50	0.53
OTHER LYMPHOMA	0.60	1.35	0.76	0.34
MULTIPLE MYELOMA	1.54	-	0.00	0.00
DIGESTIVE ORGANS	1.10	0.54	0.38	0.77
STOMACH	1.90	0.00	0.00	1.20
COLON & RECTUM	0.97	0.68	0.35	0.49
LIVER (PRIMARY)	1.54	-	0.00	0.00
TRACHEA, BRONCHUS, LUNG	1.31	1.35	1.22	1.18
BREAST (FEMALE)	0.76	0.76	1.91	1.92
THYROID	0.00	-	-	0.00
BONES & JOINTS	0.00	0.00	-	2.85
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	0.76	4.03	1.99	0.37
BENIGN & UNSPEC NEOPLASMS	-	-	0.00	-

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.10

Age at death: 40 to 59

North Anna 1,2 (1978)
Caroline, VA ; Hanover, VA ; Louisa, VA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	20	0.88	32	0.84	7	1.08	14	1.45
ALL CANCER, EXCL LEUK	658	0.90	1165	0.94	216	0.97	328	0.97
HODGKIN'S DISEASE	9	1.12	11	0.82	0	0.00	1	0.59
OTHER LYMPHOMA	14	0.71	30	0.92	5	0.79	14	1.48
MULTIPLE MYELOMA	3	0.32	22	1.38	1	0.32	5	1.04
DIGESTIVE ORGANS	166	0.84	279	0.82	37	0.75	73	0.96
STOMACH	29	0.73	52	0.74	6	0.89	6	0.59
COLON & RECTUM	68	0.90	114	0.88	13	0.65	40	1.32
LIVER (PRIMARY)	16	0.85	27	0.81	3	0.94	2	0.41
TRACHEA, BRONCHUS, LUNG	177	1.08	297	1.11	80	1.14	114	1.07
BREAST (FEMALE)	83	0.92	128	0.84	22	0.80	39	0.95
THYROID	1	0.47	6	1.62	1	2.41	0	0.00
BONES & JOINTS	5	1.32	8	1.22	3	5.86	0	0.00
BLADDER	10	0.90	14	0.73	6	2.73	2	0.60
BRAIN & OTHER C.N.S.	15	0.65	36	0.96	15	2.19	9	0.89
BENIGN & UNSPEC NEOPLASMS	4	0.98	10	1.61	0	0.00	0	0.00

Table 1-D.10

Age at death: 40 to 59

North Anna 1,2 (1978)
Caroline, VA ; Hanover, VA ; Louisa, VA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.05	0.74	1.23	1.73
ALL CANCER, EXCL LEUK	0.96	1.00	1.08	1.03
HODGKIN'S DISEASE	1.37	0.00	0.00	0.72
OTHER LYMPHOMA	0.77	0.53	1.11	1.61
MULTIPLE MYELOMA	0.23*	0.31	1.00	0.75
DIGESTIVE ORGANS	1.02	0.78	0.89	1.17
STOMACH	0.99	1.51	1.22	0.80
COLON & RECTUM	1.02	0.49*	0.72	1.50*
LIVER (PRIMARY)	1.05	2.29	1.11	0.51
TRACHEA, BRONCHUS, LUNG	0.97	1.07	1.06	0.96
BREAST (FEMALE)	1.10	0.84	0.87	1.13
THYROID	0.29	-	5.13	0.00
BONES & JOINTS	1.08	-	4.44	0.00
BLADDER	1.23	4.55	3.03	0.82
BRAIN & OTHER C.N.S.	0.68	2.46*	3.37**	0.93
BENIGN & UNSPEC NEOPLASMS	0.61	-	0.00	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.10

Age at death: 60 plus

North Anna 1,2 (1978)
Caroline, VA ; Hanover, VA ; Louisa, VA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	57	0.96	110	0.90	22	0.98	52	1.17
ALL CANCER, EXCL LEUK	1649	0.96	3382	0.96	689	1.04	1358	1.05
HODGKIN'S DISEASE	13	1.50	15	0.84	2	1.13	4	1.17
OTHER LYMPHOMA	28	0.72	73	0.91	16	0.85	35	0.95
MULTIPLE MYELOMA	27	1.09	37	0.74	20	1.55	29	1.15
DIGESTIVE ORGANS	570	0.89	1214	0.93	184	0.95	377	0.99
STOMACH	123	0.87	242	0.84	26	0.97	44	0.83
COLON & RECTUM	237	0.87	534	0.95	89	0.97	182	1.00
LIVER (PRIMARY)	41	0.73	96	0.83	8	0.76	20	0.98
TRACHEA, BRONCHUS, LUNG	295	0.98	623	1.03	201	1.15	392	1.17
BREAST (FEMALE)	115	0.98	200	0.84	32	0.70	86	0.96
THYROID	6	0.98	12	0.96	2	1.30	3	0.98
BONES & JOINTS	8	0.96	15	0.88	0	0.00	0	0.00
BLADDER	53	0.90	91	0.75	12	0.67	31	0.87
BRAIN & OTHER C.N.S.	12	0.58	36	0.87	16	1.36	23	1.02
BENIGN & UNSPEC NEOPLASMS	14	1.75	10	0.63	2	0.66	1	0.17

Table 1-D.10

Age at death: 60 plus

North Anna 1,2 (1978)
Caroline, VA ; Hanover, VA ; Louisa, VA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.07	0.84	1.02	1.30
ALL CANCER, EXCL LEUK	1.00	0.99	1.08	1.09**
HODGKIN'S DISEASE	1.79	0.97	0.75	1.39
OTHER LYMPHOMA	0.79	0.89	1.18	1.04
MULTIPLE MYELOMA	1.47	1.35	1.42	1.55
DIGESTIVE ORGANS	0.96	0.96	1.07	1.06
STOMACH	1.04	1.17	1.11	0.99
COLON & RECTUM	0.92	0.97	1.11	1.05
LIVER (PRIMARY)	0.88	0.78	1.04	1.18
TRACHEA, BRONCHUS, LUNG	0.95	0.98	1.17	1.14
BREAST (FEMALE)	1.17	0.73	0.71	1.14
THYROID	1.02	1.33	1.33	1.02
BONES & JOINTS	1.09	-	0.00	0.00
BLADDER	1.20	0.77	0.74	1.16
BRAIN & OTHER C.N.S.	0.67	1.33	2.34*	1.17
BENIGN & UNSPEC NEOPLASMS	2.78*	3.88	0.38	0.27

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.10

Age at death: all

North Anna 1,2 (1978)
Caroline, VA ; Hanover, VA ; Louisa, VA

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	113	1.03	188	0.93	36	1.04	72	1.16
ALL CANCER, EXCL LEUK	2412	0.94	4725	0.96	943	1.03	1721	1.03
HODGKIN'S DISEASE	31	1.24	38	0.87	4	0.91	6	0.84
OTHER LYMPHOMA	51	0.76	117	0.93	23	0.84	50	1.02
MULTIPLE MYELOMA	31	0.90	60	0.90	21	1.30	34	1.12
DIGESTIVE ORGANS	759	0.89	1529	0.91	223	0.90	456	0.98
STOMACH	158	0.86	299	0.82	32	0.94	51	0.80
COLON & RECTUM	317	0.89	670	0.95	103	0.91	224	1.05
LIVER (PRIMARY)	59	0.76	126	0.82	11	0.77	22	0.84
TRACHEA, BRONCHUS, LUNG	480	1.01	929	1.05	284	1.15	509	1.14
BREAST (FEMALE)	206	0.94	344	0.84	59	0.76	134	0.98
THYROID	7	0.82	19	1.13	3	1.48	3	0.80
BONES & JOINTS	15	0.89	32	1.04	3	1.13	3	0.69
BLADDER	63	0.90	105	0.74	19	0.94	33	0.84
BRAIN & OTHER C.N.S.	35	0.59	93	0.90	35	1.58	34	0.91
BENIGN & UNSPEC NEOPLASMS	20	1.40	23	0.92	2	0.44	1	0.12

Table 1-D.10

Age at death: all

North Anna 1,2 (1978)
Caroline, VA ; Hanover, VA ; Louisa, VA

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.11	0.90	1.01	1.25
ALL CANCER, EXCL LEUK	0.98	1.00	1.10*	1.07*
HODGKIN'S DISEASE	1.43	1.08	0.73	0.97
OTHER LYMPHOMA	0.82	0.82	1.11	1.10
MULTIPLE MYELOMA	1.00	1.16	1.44	1.24
DIGESTIVE ORGANS	0.98	0.92	1.01	1.08
STOMACH	1.05	1.18	1.09	0.98
COLON & RECTUM	0.94	0.87	1.02	1.11
LIVER (PRIMARY)	0.93	0.92	1.01	1.02
TRACHEA, BRONCHUS, LUNG	0.96	1.01	1.14	1.09
BREAST (FEMALE)	1.12	0.78	0.81	1.17
THYROID	0.73	1.85	1.80	0.71
BONES & JOINTS	0.86	1.64	1.27	0.66
BLADDER	1.22	1.12	1.04	1.14
BRAIN & OTHER C.N.S.	0.66*	1.74*	2.68***	1.01
BENIGN & UNSPEC NEOPLASMS	1.52	3.67	0.31	0.13*

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.11

Age at death: under 10

Sequoyah 1,2 (1980)
Hamilton, TN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	48	0.98	102	0.84	4	1.63	7	1.10
ALL CANCER, EXCL LEUK	59	1.07	141	1.03	6	1.44	6	0.55
HODGKIN'S DISEASE	2	2.33	4	1.94	0	0.00	0	0.00
OTHER LYMPHOMA	3	0.42	16	0.91	0	0.00	2	2.15
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	0.35	6	0.85	0	0.00	0	0.00
STOMACH	0	0.00	1	3.15	0	0.00	0	0.00
COLON & RECTUM	0	0.00	1	1.29	0	0.00	0	0.00
LIVER (PRIMARY)	1	0.59	3	0.71	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	0	0.00	5	4.31	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	2	1.03	6	1.26	0	0.00	0	0.00
BLADDER	1	3.39	3	4.14	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	25	1.16	50	0.93	5	3.46	1	0.27
BENIGN & UNSPEC NEOPLASMS	5	2.43	5	0.92	1	5.23	0	0.00

Table 1-D.11

Age at death: under 10

Sequoyah 1,2 (1980)
Hamilton, TN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.17	1.48	1.66	1.31
ALL CANCER, EXCL LEUK	1.04	2.62	1.35	0.53
HODGKIN'S DISEASE	1.20	-	0.00	0.00
OTHER LYMPHOMA	0.46	0.00	0.00	2.36
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.41	-	0.00	0.00
STOMACH	0.00	-	-	0.00
COLON & RECTUM	0.00	-	-	0.00
LIVER (PRIMARY)	0.83	-	0.00	0.00
TRACHEA, BRONCHUS, LUNG	0.00	-	-	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	0.82	-	0.00	0.00
BLADDER	0.82	-	0.00	0.00
BRAIN & OTHER C.N.S.	1.25	12.81*	2.98	0.29
BENIGN & UNSPEC NEOPLASMS	2.64	-	2.15	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.11

Age at death: 10 to 19

Sequoyah 1,2 (1980)
Hamilton, TN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	26	0.94	68	0.95	5	1.79	7	0.93
ALL CANCER, EXCL LEUK	58	1.09	133	0.95	5	0.96	15	1.05
HODGKIN'S DISEASE	2	0.40	9	0.68	1	2.92	2	2.08
OTHER LYMPHOMA	12	1.57	21	1.05	0	0.00	2	1.02
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	1	0.35	8	1.04	0	0.00	1	1.24
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	0.87	3	0.97	0	0.00	1	4.11
LIVER (PRIMARY)	0	0.00	5	1.93	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	2	3.30	2	1.27	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	17	1.75	23	0.90	2	2.23	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	16	1.21	30	0.88	0	0.00	6	1.74
BENIGN & UNSPEC NEOPLASMS	1	0.60	2	0.42	1	19.26	0	0.00

Table 1-D.11

Age at death: 10 to 19

Sequoyah 1,2 (1980)
Hamilton, TN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.99	1.92	1.90	0.98
ALL CANCER, EXCL LEUK	1.15	0.91	0.88	1.11
HODGKIN'S DISEASE	0.59	1.40	7.30	3.06
OTHER LYMPHOMA	1.50	0.00	0.00	0.97
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.34	0.00	0.00	1.19
STOMACH	-	-	-	-
COLON & RECTUM	0.90	0.00	0.00	4.24
LIVER (PRIMARY)	0.00	-	-	0.00
TRACHEA, BRONCHUS, LUNG	2.60	-	0.00	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	1.94	-	1.27	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.38	0.00	0.00	1.98
BENIGN & UNSPEC NEOPLASMS	1.43	-	32.10	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.11

Age at death: 20 to 39

Sequoyah 1,2 (1980)
Hamilton, TN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	51	1.13	103	0.84	4	0.59	23	1.16
ALL CANCER, EXCL LEUK	418	1.03	1025	0.98	67	1.28	137	0.93
HODGKIN'S DISEASE	22	0.68	67	0.76	6	2.09	8	0.95
OTHER LYMPHOMA	20	0.90	56	0.93	2	0.55	5	0.48
MULTIPLE MYELOMA	0	0.00	1	0.21	0	0.00	0	0.00
DIGESTIVE ORGANS	62	0.91	193	1.10	9	1.13	26	1.15
STOMACH	11	0.77	35	0.97	1	0.72	6	1.52
COLON & RECTUM	22	0.68	98	1.18	1	0.27	10	0.97
LIVER (PRIMARY)	13	1.75	24	1.24	2	2.00	5	1.67
TRACHEA, BRONCHUS, LUNG	28	0.87	98	1.15	12	2.51	14	1.08
BREAST (FEMALE)	65	1.11	132	0.91	7	0.80	25	1.05
THYROID	1	0.78	2	0.61	0	0.00	1	2.77
BONES & JOINTS	9	1.22	20	0.97	1	0.98	2	0.64
BLADDER	3	1.69	6	1.37	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	46	1.37	92	1.03	9	1.91	8	0.60
BENIGN & UNSPEC NEOPLASMS	2	0.45	11	0.85	0	0.00	2	1.48

Table 1-D.11

Age at death: 20 to 39

Sequoyah 1,2 (1980)
Hamilton, TN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.35	0.51	0.52	1.38
ALL CANCER, EXCL LEUK	1.05	1.38*	1.24	0.95
HODGKIN'S DISEASE	0.89	2.20	3.07*	1.25
OTHER LYMPHOMA	0.97	1.15	0.61	0.52
MULTIPLE MYELOMA	0.00	-	-	0.00
DIGESTIVE ORGANS	0.83	0.98	1.24	1.05
STOMACH	0.79	0.47	0.94	1.57
COLON & RECTUM	0.58*	0.28	0.40	0.82
LIVER (PRIMARY)	1.41	1.20	1.14	1.35
TRACHEA, BRONCHUS, LUNG	0.76	2.32	2.89**	0.94
BREAST (FEMALE)	1.22	0.76	0.72	1.15
THYROID	1.28	0.00	0.00	4.54
BONES & JOINTS	1.26	1.53	0.80	0.66
BLADDER	1.23	-	0.00	0.00
BRAIN & OTHER C.N.S.	1.33	3.18*	1.39	0.58
BENIGN & UNSPEC NEOPLASMS	0.53	0.00	0.00	1.74

* : $0.01 < P \leq 0.05$
** : $0.001 < P \leq 0.01$
*** : $P \leq 0.001$

Table 1-D.11

Age at death: 40 to 59

Sequoyah 1,2 (1980)
Hamilton, TN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	98	0.96	234	1.00	10	0.75	27	0.77
ALL CANCER, EXCL LEUK	3395	1.06	7467	1.02	509	1.12	1270	1.07
HODGKIN'S DISEASE	38	1.07	63	0.77	2	0.89	6	1.00
OTHER LYMPHOMA	82	0.92	192	0.93	11	0.82	39	1.11
MULTIPLE MYELOMA	49	1.25	93	1.04	8	1.29	22	1.37
DIGESTIVE ORGANS	827	0.98	1769	0.93	109	1.11	267	1.05
STOMACH	137	0.84	283	0.79	11	0.86	35	1.04
COLON & RECTUM	321	0.94	669	0.87	47	1.14	121	1.13
LIVER (PRIMARY)	80	1.00	186	1.06	9	1.48	15	0.94
TRACHEA, BRONCHUS, LUNG	809	1.18	1869	1.17	192	1.36	438	1.19
BREAST (FEMALE)	405	0.92	899	0.90	68	1.11	149	0.93
THYROID	8	0.83	21	0.98	0	0.00	1	0.46
BONES & JOINTS	15	0.91	47	1.28	0	0.00	4	1.64
BLADDER	56	1.20	111	1.07	4	0.92	8	0.71
BRAIN & OTHER C.N.S.	126	1.20	249	1.02	20	1.39	42	1.11
BENIGN & UNSPEC NEOPLASMS	13	0.82	35	0.90	2	1.41	3	0.80

Table 1-D.11

Age at death: 40 to 59

Sequoyah 1,2 (1980)
Hamilton, TN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.96	0.97	0.78	0.77
ALL CANCER, EXCL LEUK	1.04	1.05	1.06	1.05
HODGKIN'S DISEASE	1.39	0.89	0.83	1.30
OTHER LYMPHOMA	0.99	0.74	0.89	1.19
MULTIPLE MYELOMA	1.20	0.94	1.03	1.32
DIGESTIVE ORGANS	1.05	1.06	1.13	1.13
STOMACH	1.06	0.83	1.02	1.32
COLON & RECTUM	1.08	1.01	1.21	1.30*
LIVER (PRIMARY)	0.94	1.57	1.48	0.89
TRACHEA, BRONCHUS, LUNG	1.01	1.14	1.15	1.02
BREAST (FEMALE)	1.02	1.19	1.21	1.03
THYROID	0.85	0.00	0.00	0.47
BONES & JOINTS	0.71	0.00	0.00	1.28
BLADDER	1.12	1.30	0.77	0.66
BRAIN & OTHER C.N.S.	1.18	1.25	1.16	1.09
BENIGN & UNSPEC NEOPLASMS	0.91	1.76	1.72	0.89

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.11

Age at death: 60 plus

Sequoyah 1,2 (1980)
Hamilton, TN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	231	0.88	546	0.95	57	1.02	118	0.91
ALL CANCER, EXCL LEUK	7050	0.96	15142	0.93	1646	1.04	3785	1.02
HODGKIN'S DISEASE	38	1.02	94	1.15	10	2.41	11	1.13
OTHER LYMPHOMA	217	1.20	423	1.07	45	0.94	128	1.14
MULTIPLE MYELOMA	103	0.96	248	1.05	28	0.91	71	0.99
DIGESTIVE ORGANS	2335	0.88	4890	0.83	426	0.91	994	0.91
STOMACH	368	0.69	779	0.65	66	1.08	95	0.67
COLON & RECTUM	1066	0.89	2232	0.85	201	0.89	481	0.91
LIVER (PRIMARY)	217	0.95	462	0.92	33	1.36	48	0.85
TRACHEA, BRONCHUS, LUNG	1392	1.08	3012	1.06	504	1.26	1119	1.18
BREAST (FEMALE)	464	0.81	1102	0.87	147	1.19	270	0.92
THYROID	19	0.70	55	0.92	4	1.03	10	1.11
BONES & JOINTS	34	1.01	80	1.08	4	1.60	4	0.69
BLADDER	233	0.95	440	0.82	37	0.86	98	0.99
BRAIN & OTHER C.N.S.	116	1.18	244	1.13	28	0.98	95	1.40
BENIGN & UNSPEC NEOPLASMS	25	0.69	63	0.79	8	1.36	16	1.17

Table 1-D.11

Age at death: 60 plus

Sequoyah 1,2 (1980)
Hamilton, TN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.93	1.12	1.16	0.96
ALL CANCER, EXCL LEUK	1.03*	1.02	1.08**	1.10***
HODGKIN'S DISEASE	0.89	2.13	2.36*	0.98
OTHER LYMPHOMA	1.12	0.82	0.78	1.07
MULTIPLE MYELOMA	0.91	0.92	0.95	0.94
DIGESTIVE ORGANS	1.06*	1.00	1.03	1.10**
STOMACH	1.06	1.61**	1.57**	1.03
COLON & RECTUM	1.05	0.98	1.00	1.07
LIVER (PRIMARY)	1.03	1.60	1.43	0.92
TRACHEA, BRONCHUS, LUNG	1.02	1.07	1.17**	1.11**
BREAST (FEMALE)	0.93	1.29*	1.47***	1.06
THYROID	0.76	0.93	1.47	1.21
BONES & JOINTS	0.94	2.32	1.58	0.64
BLADDER	1.16	0.87	0.91	1.21
BRAIN & OTHER C.N.S.	1.04	0.70	0.83	1.24
BENIGN & UNSPEC NEOPLASMS	0.87	1.16	1.97	1.48

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-D.11

Age at death: all

Sequoyah 1,2 (1980)
Hamilton, TN

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	454	0.93	1053	0.93	80	0.98	182	0.91
ALL CANCER, EXCL LEUK	10980	0.99	23908	0.96	2233	1.06	5213	1.03
HODGKIN'S DISEASE	102	0.92	237	0.89	19	1.97	27	1.07
OTHER LYMPHOMA	334	1.09	708	1.01	58	0.88	176	1.09
MULTIPLE MYELOMA	152	1.02	342	1.03	36	0.96	93	1.05
DIGESTIVE ORGANS	3226	0.90	6866	0.86	544	0.95	1288	0.94
STOMACH	516	0.72	1098	0.69	78	1.04	136	0.76
COLON & RECTUM	1410	0.90	3003	0.86	249	0.92	613	0.95
LIVER (PRIMARY)	311	0.98	680	0.96	44	1.39	68	0.89
TRACHEA, BRONCHUS, LUNG	2231	1.11	4986	1.10	708	1.29	1571	1.18
BREAST (FEMALE)	934	0.87	2133	0.88	222	1.15	444	0.93
THYROID	28	0.73	78	0.92	4	0.82	12	1.03
BONES & JOINTS	77	1.11	176	1.08	7	1.28	10	0.71
BLADDER	293	1.00	560	0.87	41	0.86	106	0.96
BRAIN & OTHER C.N.S.	329	1.21	665	1.04	62	1.23	152	1.20
BENIGN & UNSPEC NEOPLASMS	46	0.76	116	0.81	12	1.50	21	1.08

Table 1-D.11

Age at death: all

Sequoyah 1,2 (1980)
Hamilton, TN

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	1.08	1.05	0.98
ALL CANCER, EXCL LEUK	1.03**	1.03	1.07**	1.07***
HODGKIN'S DISEASE	1.03	1.84	2.14**	1.20
OTHER LYMPHOMA	1.08	0.81	0.81	1.08
MULTIPLE MYELOMA	0.99	0.91	0.94	1.02
DIGESTIVE ORGANS	1.05*	1.01	1.06	1.09**
STOMACH	1.04	1.37*	1.44**	1.10
COLON & RECTUM	1.05	0.97	1.02	1.10*
LIVER (PRIMARY)	1.02	1.56*	1.42*	0.93
TRACHEA, BRONCHUS, LUNG	1.01	1.09	1.16***	1.07*
BREAST (FEMALE)	0.99	1.24*	1.32***	1.06
THYROID	0.79	0.80	1.12	1.12
BONES & JOINTS	1.03	1.80	1.15	0.66
BLADDER	1.15	0.90	0.86	1.10
BRAIN & OTHER C.N.S.	1.16*	1.03	1.02	1.15
BENIGN & UNSPEC NEOPLASMS	0.94	1.39	1.97	1.33

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.12

Age at death: under 10

McGuire 1,2 (1981)
Gaston, NC ; Lincoln, NC ; Mecklenburg, NC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	103	1.04	146	0.98	1	0.24	4	0.65
ALL CANCER, EXCL LEUK	112	0.99	172	1.01	3	0.43	3	0.29
HODGKIN'S DISEASE	8	4.68	2	0.78	0	0.00	0	0.00
OTHER LYMPHOMA	11	0.77	23	1.07	0	0.00	0	0.00
MULTIPLE MYELOMA	0	0.00	1	11.00	0	0.00	0	0.00
DIGESTIVE ORGANS	3	0.51	9	1.02	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	1	1.54	0	0.00	0	0.00	0	0.00
LIVER (PRIMARY)	2	0.57	7	1.33	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	2	2.02	0	0.00	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	0	0.00	0	0.00	0	0.00	0	0.00
BONES & JOINTS	3	0.76	2	0.34	0	0.00	0	0.00
BLADDER	0	0.00	1	1.13	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	43	0.98	69	1.04	2	0.82	2	0.55
BENIGN & UNSPEC NEOPLASMS	4	0.85	7	1.01	0	0.00	0	0.00

Table 1-D.12

Age at death: under 10

McGuire 1,2 (1981)
Gaston, NC ; Lincoln, NC ; Mecklenburg, NC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.06	0.37	0.23	0.66
ALL CANCER, EXCL LEUK	0.98	1.48	0.43	0.29*
HODGKIN'S DISEASE	6.00*	-	0.00	0.00
OTHER LYMPHOMA	0.72	-	0.00	0.00
MULTIPLE MYELOMA	0.00	-	-	0.00
DIGESTIVE ORGANS	0.50	-	0.00	0.00
STOMACH	-	-	-	-
COLON & RECTUM	-	-	0.00	-
LIVER (PRIMARY)	0.43	-	0.00	0.00
TRACHEA, BRONCHUS, LUNG	-	-	0.00	-
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	-	-
BONES & JOINTS	2.24	-	0.00	0.00
BLADDER	0.00	-	-	0.00
BRAIN & OTHER C.N.S.	0.94	1.49	0.84	0.53
BENIGN & UNSPEC NEOPLASMS	0.84	-	0.00	0.00

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.12

Age at death: 10 to 19

McGuire 1,2 (1981)

Gaston, NC ; Lincoln, NC ; Mecklenburg, NC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	48	0.84	87	0.95	2	0.43	9	1.20
ALL CANCER, EXCL LEUK	106	0.96	165	0.92	11	1.26	5	0.36
HODGKIN'S DISEASE	7	0.69	11	0.66	0	0.00	0	0.00
OTHER LYMPHOMA	12	0.76	21	0.83	1	0.84	1	0.52
MULTIPLE MYELOMA	0	0.00	0	0.00	0	0.00	0	0.00
DIGESTIVE ORGANS	4	0.66	12	1.21	0	0.00	0	0.00
STOMACH	0	0.00	0	0.00	0	0.00	0	0.00
COLON & RECTUM	2	0.82	2	0.50	0	0.00	0	0.00
LIVER (PRIMARY)	2	0.96	6	1.79	0	0.00	0	0.00
TRACHEA, BRONCHUS, LUNG	1	0.81	2	0.98	0	0.00	0	0.00
BREAST (FEMALE)	0	0.00	0	0.00	0	0.00	0	0.00
THYROID	1	3.52	0	0.00	0	0.00	0	0.00
BONES & JOINTS	19	0.94	31	0.95	2	1.34	0	0.00
BLADDER	0	0.00	0	0.00	0	0.00	0	0.00
BRAIN & OTHER C.N.S.	31	1.13	45	1.03	3	1.38	2	0.58
BENIGN & UNSPEC NEOPLASMS	4	1.09	8	1.40	0	0.00	0	0.00

Table 1-D.12

Age at death: 10 to 19

McGuire 1,2 (1981)
Gaston, NC ; Lincoln, NC ; Mecklenburg, NC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.88	0.36	0.51	1.26
ALL CANCER, EXCL LEUK	1.04	3.50*	1.31	0.39*
HODGKIN'S DISEASE	1.05	-	0.00	0.00
OTHER LYMPHOMA	0.92	1.62	1.11	0.63
MULTIPLE MYELOMA	-	-	-	-
DIGESTIVE ORGANS	0.55	-	0.00	0.00
STOMACH	-	-	-	-
COLON & RECTUM	1.64	-	0.00	0.00
LIVER (PRIMARY)	0.54	-	0.00	0.00
TRACHEA, BRONCHUS, LUNG	0.83	-	0.00	0.00
BREAST (FEMALE)	-	-	-	-
THYROID	-	-	0.00	-
BONES & JOINTS	0.99	-	1.43	0.00
BLADDER	-	-	-	-
BRAIN & OTHER C.N.S.	1.10	2.38	1.22	0.56
BENIGN & UNSPEC NEOPLASMS	0.78	-	0.00	0.00

* : $0.01 < P <= 0.05$
** : $0.001 < P <= 0.01$
*** : $P <= 0.001$

Table 1-D.12

Age at death: 20 to 39

McGuire 1,2 (1981)

Gaston, NC ; Lincoln, NC ; Mecklenburg, NC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	82	0.85	140	0.92	11	0.91	13	0.68
ALL CANCER, EXCL LEUK	880	1.03	1192	0.91	105	1.11	125	0.84
HODGKIN'S DISEASE	64	0.95	92	0.86	5	0.99	3	0.37
OTHER LYMPHOMA	38	0.80	51	0.67	9	1.39	7	0.68
MULTIPLE MYELOMA	9	2.25	9	1.49	0	0.00	1	1.37
DIGESTIVE ORGANS	125	0.87	189	0.86	15	1.02	17	0.75
STOMACH	29	0.98	39	0.87	1	0.38	3	0.75
COLON & RECTUM	58	0.86	97	0.93	9	1.35	5	0.48
LIVER (PRIMARY)	13	0.82	16	0.66	2	1.04	3	1.02
TRACHEA, BRONCHUS, LUNG	63	0.89	89	0.83	9	1.03	9	0.66
BREAST (FEMALE)	128	1.04	162	0.89	15	0.95	26	1.05
THYROID	1	0.38	2	0.49	0	0.00	0	0.00
BONES & JOINTS	29	1.88	22	0.86	1	0.56	0	0.00
BLADDER	6	1.67	4	0.73	0	0.00	1	2.03
BRAIN & OTHER C.N.S.	54	0.76	103	0.92	8	0.97	14	1.06
BENIGN & UNSPEC NEOPLASMS	7	0.66	23	1.42	0	0.00	1	0.76

Table 1-D.12

Age at death: 20 to 39

McGuire 1,2 (1981)

Gaston, NC ; Lincoln, NC ; Mecklenburg, NC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.92	1.34	1.07	0.74
ALL CANCER, EXCL LEUK	1.13**	1.32*	1.08	0.92
HODGKIN'S DISEASE	1.10	2.68	1.04	0.43
OTHER LYMPHOMA	1.19	2.04	1.74	1.01
MULTIPLE MYELOMA	1.51	0.00	0.00	0.92
DIGESTIVE ORGANS	1.01	1.36	1.17	0.87
STOMACH	1.13	0.51	0.39	0.86
COLON & RECTUM	0.92	2.81	1.57	0.52
LIVER (PRIMARY)	1.24	1.02	1.27	1.55
TRACHEA, BRONCHUS, LUNG	1.07	1.56	1.16	0.80
BREAST (FEMALE)	1.17	0.90	0.91	1.18
THYROID	0.78	-	0.00	0.00
BONES & JOINTS	2.19**	-	0.30	0.00
BLADDER	2.29	0.00	0.00	2.78
BRAIN & OTHER C.N.S.	0.83	0.92	1.28	1.15
BENIGN & UNSPEC NEOPLASMS	0.46	0.00	0.00	0.54

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.12

Age at death: 40 to 59

McGuire 1,2 (1981)
Gaston, NC ; Lincoln, NC ; Mecklenburg, NC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	195	1.02	307	1.04	21	0.96	32	0.94
ALL CANCER, EXCL LEUK	5628	0.95	8379	0.91	717	0.97	1116	0.98
HODGKIN'S DISEASE	56	0.86	82	0.81	4	1.07	3	0.51
OTHER LYMPHOMA	124	0.73	230	0.87	26	1.19	34	1.00
MULTIPLE MYELOMA	79	1.08	118	1.04	6	0.60	19	1.23
DIGESTIVE ORGANS	1303	0.86	1887	0.79	156	0.98	213	0.86
STOMACH	230	0.82	294	0.67	19	0.91	30	0.92
COLON & RECTUM	538	0.86	732	0.75	65	0.98	81	0.78
LIVER (PRIMARY)	120	0.88	170	0.79	7	0.70	3	0.19
TRACHEA, BRONCHUS, LUNG	1313	0.97	1902	0.91	223	0.97	344	0.96
BREAST (FEMALE)	711	0.87	1196	0.95	103	1.04	167	1.10
THYROID	15	0.88	24	0.90	1	0.74	2	0.95
BONES & JOINTS	39	1.35	49	1.09	1	0.66	2	0.84
BLADDER	89	1.08	115	0.89	6	0.86	9	0.83
BRAIN & OTHER C.N.S.	215	1.07	343	1.10	24	1.02	47	1.28
BENIGN & UNSPEC NEOPLASMS	28	0.85	67	1.34	0	0.00	1	0.28

Table 1-D.12

Age at death: 40 to 59

McGuire 1,2 (1981)
Gaston, NC ; Lincoln, NC ; Mecklenburg, NC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.98	1.02	0.94	0.90
ALL CANCER, EXCL LEUK	1.04*	0.99	1.02	1.08*
HODGKIN'S DISEASE	1.06	2.10	1.24	0.63
OTHER LYMPHOMA	0.84	1.19	1.63*	1.15
MULTIPLE MYELOMA	1.04	0.49	0.56	1.18
DIGESTIVE ORGANS	1.09*	1.14	1.14	1.09
STOMACH	1.22*	0.99	1.11	1.37
COLON & RECTUM	1.15*	1.26	1.14	1.04
LIVER (PRIMARY)	1.11	3.68	0.80	0.24**
TRACHEA, BRONCHUS, LUNG	1.07	1.01	1.00	1.05
BREAST (FEMALE)	0.92	0.95	1.20	1.16
THYROID	0.98	0.78	0.84	1.06
BONES & JOINTS	1.24	0.79	0.49	0.77
BLADDER	1.21	1.04	0.80	0.93
BRAIN & OTHER C.N.S.	0.97	0.80	0.95	1.16
BENIGN & UNSPEC NEOPLASMS	0.63	0.00	0.00	0.21

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.12

Age at death: 60 plus

McGuire 1,2 (1981)
Gaston, NC ; Lincoln, NC ; Mecklenburg, NC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	411	0.98	701	0.98	77	1.02	132	1.05
ALL CANCER, EXCL LEUK	10608	0.91	17733	0.89	2102	0.97	3536	0.99
HODGKIN'S DISEASE	63	1.09	132	1.34	4	0.69	6	0.63
OTHER LYMPHOMA	303	1.01	493	0.98	56	0.85	126	1.15
MULTIPLE MYELOMA	184	1.04	344	1.15	47	1.14	67	0.98
DIGESTIVE ORGANS	3268	0.79	5447	0.77	575	0.91	899	0.86
STOMACH	563	0.71	908	0.66	65	0.80	89	0.66
COLON & RECTUM	1476	0.79	2321	0.72	281	0.93	468	0.92
LIVER (PRIMARY)	277	0.82	447	0.77	28	0.85	44	0.81
TRACHEA, BRONCHUS, LUNG	2135	0.97	3260	0.88	609	1.09	973	1.05
BREAST (FEMALE)	749	0.80	1310	0.85	131	0.76	272	0.97
THYROID	35	0.84	58	0.82	4	0.76	7	0.80
BONES & JOINTS	54	1.07	99	1.14	4	1.18	7	1.24
BLADDER	297	0.79	508	0.78	52	0.92	87	0.91
BRAIN & OTHER C.N.S.	190	1.11	269	0.95	43	1.06	83	1.25
BENIGN & UNSPEC NEOPLASMS	68	1.12	94	0.93	6	0.76	11	0.85

Table 1-D.12

Age at death: 60 plus

McGuire 1,2 (1981)
Gaston, NC ; Lincoln, NC ; Mecklenburg, NC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	1.00	0.97	1.04	1.07
ALL CANCER, EXCL LEUK	1.02	0.98	1.07**	1.11***
HODGKIN'S DISEASE	0.81	1.10	0.63	0.47
OTHER LYMPHOMA	1.03	0.74	0.84	1.17
MULTIPLE MYELOMA	0.90	1.16	1.10	0.85
DIGESTIVE ORGANS	1.03	1.06	1.15**	1.12**
STOMACH	1.08	1.21	1.13	1.00
COLON & RECTUM	1.10*	1.01	1.18*	1.28***
LIVER (PRIMARY)	1.06	1.05	1.04	1.05
TRACHEA, BRONCHUS, LUNG	1.10***	1.04	1.12*	1.19***
BREAST (FEMALE)	0.94	0.78*	0.95	1.14*
THYROID	1.02	0.95	0.90	0.98
BONES & JOINTS	0.94	0.95	1.10	1.09
BLADDER	1.01	1.01	1.16	1.17
BRAIN & OTHER C.N.S.	1.17	0.85	0.95	1.32*
BENIGN & UNSPEC NEOPLASMS	1.20	0.89	0.68	0.91

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

Table 1-D.12

Age at death: all

McGuire 1,2 (1981)

Gaston, NC ; Lincoln, NC ; Mecklenburg, NC

	Before Startup				After Startup			
	Study		Control		Study		Control	
Disease	OBS	SMR	OBS	SMR	OBS	SMR	OBS	SMR
LEUKEMIA & ALEUKEMIA	839	0.97	1381	0.98	112	0.95	190	0.98
ALL CANCER, EXCL LEUK	17334	0.93	27641	0.90	2938	0.98	4785	0.98
HODGKIN'S DISEASE	198	0.98	319	0.98	13	0.86	12	0.49
OTHER LYMPHOMA	488	0.89	818	0.92	92	0.96	168	1.07
MULTIPLE MYELOMA	272	1.07	472	1.13	53	1.02	87	1.03
DIGESTIVE ORGANS	4703	0.81	7544	0.78	746	0.93	1129	0.86
STOMACH	822	0.75	1241	0.67	85	0.81	122	0.71
COLON & RECTUM	2075	0.81	3152	0.74	355	0.94	554	0.89
LIVER (PRIMARY)	414	0.83	646	0.78	37	0.82	50	0.68
TRACHEA, BRONCHUS, LUNG	3514	0.97	5253	0.89	841	1.06	1326	1.02
BREAST (FEMALE)	1588	0.85	2668	0.89	249	0.87	465	1.02
THYROID	52	0.84	84	0.82	5	0.73	9	0.80
BONES & JOINTS	144	1.21	203	1.04	8	0.96	9	0.66
BLADDER	392	0.85	628	0.80	58	0.91	97	0.91
BRAIN & OTHER C.N.S.	533	1.04	829	1.02	80	1.04	148	1.20
BENIGN & UNSPEC NEOPLASMS	111	0.99	199	1.11	6	0.52	13	0.70

Table 1-D.12

Age at death: all

McGuire 1,2 (1981)

Gaston, NC ; Lincoln, NC ; Mecklenburg, NC

Relative Risks

Disease	Study Before vs. Control Before	Study After vs. Control After	Study After vs. Study Before	Control After vs. Control Before
LEUKEMIA & ALEUKEMIA	0.99	0.97	0.98	1.00
ALL CANCER, EXCL LEUK	1.03**	1.00	1.05**	1.09***
HODGKIN'S DISEASE	1.00	1.76	0.88	0.50*
OTHER LYMPHOMA	0.97	0.90	1.08	1.16
MULTIPLE MYELOMA	0.95	0.99	0.95	0.91
DIGESTIVE ORGANS	1.04*	1.08	1.15***	1.10**
STOMACH	1.12*	1.14	1.08	1.06
COLON & RECTUM	1.09**	1.06	1.16**	1.20***
LIVER (PRIMARY)	1.06	1.21	0.99	0.87
TRACHEA, BRONCHUS, LUNG	1.09***	1.04	1.09*	1.15***
BREAST (FEMALE)	0.96	0.85*	1.02	1.15**
THYROID	1.02	0.91	0.87	0.98
BONES & JOINTS	1.16	1.45	0.79	0.63
BLADDER	1.06	1.00	1.07	1.14
BRAIN & OTHER C.N.S.	1.02	0.87	1.00	1.18
BENIGN & UNSPEC NEOPLASMS	0.89	0.74	0.53	0.63

* : 0.01 < P <= 0.05
** : 0.001 < P <= 0.01
*** : P <= 0.001

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July 1990